Yahoo Group Archive: kgksdr

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2005-12-23 through 2013-04-10

Source WARC: kgksdr.UImQFqL.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-12-30T01-17-19Z-cde971

Messages included in this PDF: 1631

Messages omitted as spam from this PDF: 1

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Welcome to the group!

Yahoo group: kgksdr
Date: 2005-12-23 12:19:04 UTC
From: Duncan Munro
Topic: 1 Message: 1

Not sure why I'm writing this as there's only one member (me), but I guess you have to start somewhere....

73,

Duncan M0KGK

2. Updates database

Yahoo group: kgksdr
Date: 2005-12-23 14:45:12 UTC
From: Duncan Munro
Topic: 2 Message: 2

In the files section, I have placed a read-only updates database.
This will be the master list of things that will happen to KGKSDR in
future, and will also catalogue any faults found.

Any comments on the format contents are welcome, as are any
suggestions for improving the software.

73,

Duncan M0KGK

3. large start delay

Yahoo group: kgksdr
Date: 2005-12-23 16:48:40 UTC
From: Mike
Topic: 3 Message: 3

I have a most strange problem with the software! Woth all of the versions that I have downloaded, there is a considerable delay from the time I click the start button until I get any audio. Considerable means minutes in this case, I have not timed it exactly. During this time stop does not respond but other buttons do work. Trying to terminate the program by hitting the X for the window gets the windows message that the program is unresponsive. I'm running XP with and AMD processor and using a Delta 66 sound card. Other software from flex-radio and the Rocky program run just fine. Any clue as to what is going on?

73 - Mike WA8BXN

4. Re: [kgksdr] large start delay

Yahoo group: kgksdr
Date: 2005-12-23 17:45:29 UTC
From: Duncan Munro
Topic: 3 Message: 4

Mike wrote:
> I have a most strange problem with the software! Woth all of the
> versions that I have downloaded, there is a considerable delay from
> the time I click the start button until I get any audio. Considerable
> means minutes in this case, I have not timed it exactly. During this
> time stop does not respond but other buttons do work. Trying to
> terminate the program by hitting the X for the window gets the windows
> message that the program is unresponsive. I'm running XP with and AMD
> processor and using a Delta 66 sound card. Other software from flex-
> radio and the Rocky program run just fine. Any clue as to what is
> going on?

Hi Mike,

This sounds very bad. There should be a delay on the audio starting up
but it should be a fraction of a second - minutes sounds like a serious
problem. Is it OK if I send you a debug version which will track
exactly what the software is doing after the start button is pressed?

I have a similar setup on the shack machine, D66/AMD2600/XP so the
format should work with good results.

--
Duncan Munro
http://www.m0kgk.co.uk/

5. AM Mode?

Yahoo group: kgksdr
Date: 2005-12-24 00:50:38 UTC
From: qrper723
Topic: 5 Message: 5

```
I'm testing the latest version of build-15.
Now I can hear clear tone on 40m band.
I'm waiting for the application of AM Mode.
Because I'd like to hear BC stations with this.

Thanks for your project.

Hidehiko ja9mat
```

6. Re: [kgksdr] AM Mode?

Yahoo group: kgksdr
Date: 2005-12-24 01:01:40 UTC
From: Duncan Munro
Topic: 5 Message: 6

qrper723 wrote:
> I'm testing the latest version of build-15.
> Now I can hear clear tone on 40m band.
> I'm waiting for the application of AM Mode.
> Because I'd like to hear BC stations with this.
>
> Thanks for your project.
>
> Hidehiko ja9mat

Hi Hidehiko, I had AM down but as a low priority because in Europe the broadcast stations are mostly off the 40m amateur band now.

The AM request has been added to the development list now (it should be easy to do), but I am away for 2 days to visit family over the Christmas season. I will fix it when I come back.

All my best regards to you and your family!

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

7. Re: AM Mode?

Yahoo group: kgksdr
Date: 2005-12-24 01:15:32 UTC
From: qrper723
Topic: 5 Message: 7

Duncan,

Glad to hear you now.
I'm looking forward your progress.
Have a nice Xmas holidays with your family.

I also go to French Restaurant with my wife this evening.
I wish you a Merry Christmas.

Hidehiko JA9MAT
http://www.geocities.jp/qrper72/

8. Re: [kgksdr] Re: AM Mode?

Yahoo group: kgksdr
Date: 2005-12-24 01:25:43 UTC
From: Duncan Munro
Topic: 5 Message: 8

qrper723 wrote:
> I also go to French Restaurant with my wife this evening.
> I wish you a Merry Christmas.
>
> Hidehiko JA9MAT
> http://www.geocities.jp/qrper72/

Hi Hidehiko, hope you enjoy your meal and I must say some excellent stuff on your website in the link above. Well worth a look for those into QRP and homebrew in general.

--
Duncan Munro
http://www.m0kgk.co.uk/

9. KGKSDR update

Yahoo group: kgksdr
Date: 2005-12-26 21:02:31 UTC
From: Duncan Munro
Topic: 9 Message: 9

A couple of update items about AM mode and problems with soundcards.

AM MODE

From a suggestion by Hidehiko JA9MAT, KGKSDR now has an experimental AM mode added.

It has not had much testing here (there isn't much in the way of AM stuff on 7000-7100 in the UK), although I have tested it with some 'synthetic' AM, and the little FT857 @ 5W AM into a dummy load. It seems to make the right noises, and the quality is OK.

Tech note: There are a number of different ways to get AM out of SDR, including synchronous demodulation, but I went for a cheap and cheerful method. The signal is filtered out as SSB/CW/DSB as before but instead of being mixed down to baseband, it's deliberately mixed up to 10kHz +/- sidebands which makes it almost inaudible.

This is then 'rectified' just like the good old days, and low pass filtered down to where it needs to be. In summary, it works like a good old AM radio but with an IF of 10kHz.

One of the obvious problems with this method is it won't work on sample rates < 20kHz, hence the experimental tag :-)

Download available from http://www.m0kgk.co.uk/sdr/

SOUNDCARD PROBLEMS

There have been two reports of problems with soundcards lately, from Mike WA8BXN and Phil VK6APH, both of whom have been very generous with their patience and have assisted in numerous tests to establish the cause of the problem.

The problems can be divided into two categories and the common theme is having the Delta 44/66 in a system with other soundcards:

(A) Problems at startup where KGKSDR can stall at the splash screen while checking out the card capabilities. There are a total of 56 checks made on each sound "device", and in some instances the device can take up to 7 seconds to perform each check. This can cause very long delays, and the way round it will be to skip this check completely at startup in future versions. The information this provides can be checked as and when needed when changing soundcards using Options -> Receiver -> Hardware.

(B) In the cases mentioned, there are problems input stream on Delta 44 cards when used with other cards. The machine just sits and waits

in silence, sometimes causing the output to 'ding' by deliberately hitting the wrong keys can cause it to start up. The problems don't seem to affect other apps (i.e. Rocky). I've done a bit of homework on this one, and while I haven't got to the bottom of it yet, I believe sharing soundcards in Windows may be the root of the problem. An easy 'out' will be to provide a facility for direct access to the soundcard - this may take a little while to implement, but is currently top of the pile.

73,

Duncan M0KGK

10. Re: KGKSDR update

Yahoo group: kgksdr
Date: 2005-12-27 09:29:37 UTC
From: qrper723
Topic: 9 Message: 10

Duncan,

Thanks for response quickly!
I've checked now and received many BC Station here.
Nice job and thanks again.

Can I record the wave file?
It seems that there is a selection of that on the FILE MENU.

ja9mat hidehiko

11. Re: KGKSDR update

Yahoo group: kgksdr
Date: 2005-12-27 10:40:12 UTC
From: Duncan Munro
Topic: 9 Message: 11

```
--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@y...> wrote:
> Can I record the wave file?
> It seems that there is a selection of that on the FILE MENU.

Hi Hidehiko, thanks for the feedback on the AM mode - it sounds like
you are getting good results.

I have added the request for recording the wave file to the dev list
at http://groups.yahoo.com/group/kgksdr/database

73,

Duncan M0KGK
```

12. Re: KGKSDR update

Yahoo group: kgksdr
Date: 2005-12-27 11:15:11 UTC
From: qrper723
Topic: 9 Message: 12

Duncan,

Thanks for adding my request.

hidehiko ja9mat

> I have added the request for recording the wave file to the dev list
> at http://groups.yahoo.com/group/kgksdr/database

13. Wave recording (and startup delays)

Yahoo group: kgksdr
Date: 2005-12-27 19:45:16 UTC
From: Duncan Munro
Topic: 13 Message: 13

A few minor tweaks carried out today, full details in the changes.txt file at the download page http://www.m0kgk.co.uk/sdr/

SLOW STARTUP The soundcard checks on startup have been taken out and checks are made as and when necessary. This should boost the startup speed for those having problems with this one.

WAVE FILE RECORDING This has been added, and through the receiver options you can choose to record the incoming IQ stream or the audio going to the speaker. readme.txt has been updated with instructions, and an extra FAQ if you are having problems playing with the recorded files.

AUTOMATIC NOISE LIMITER I was getting irritated by constant clicks from mains devices going on and off hitting the AGC hard. ANL has been added, again working instructions are in the readme.txt file.

That's about it for now...

73,

Duncan M0KGK

14. RE: [kgksdr] Wave recording (and startup delays)

Yahoo group: kgksdr
Date: 2005-12-27 21:38:14 UTC
From: Stan Rife
Topic: 13 Message: 14

Thanks Duncan !

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Tuesday, December 27, 2005 1:45 PM
To: kgksdr@yahoogroups.com
Subject: [kgksdr] Wave recording (and startup delays)

A few minor tweaks carried out today, full details in the changes.txt file at the download page http://www.m0kgk.co.uk/sdr/

SLOW STARTUP The soundcard checks on startup have been taken out and checks are made as and when necessary. This should boost the startup speed for those having problems with this one.

WAVE FILE RECORDING This has been added, and through the receiver options you can choose to record the incoming IQ stream or the audio going to the speaker. readme.txt has been updated with instructions, and an extra FAQ if you are having problems playing with the recorded files.

AUTOMATIC NOISE LIMITER I was getting irritated by constant clicks from mains devices going on and off hitting the AGC hard. ANL has been added, again working instructions are in the readme.txt file.

That's about it for now...

73,

Duncan M0KGK

SPONSORED LINKS
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
and craft supply Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA> radio

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YAHOO! GROUPS LINKS

* Visit your group "kgksdr <http://groups.yahoo.com/group/kgksdr> "
on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

---

15. Software does not seem to work with onboard audio card

Yahoo group: kgksdr
Date: 2005-12-28 00:09:10 UTC
From: mmoss111
Topic: 15 Message: 15

I have SoundMAX digital audio on my ASUS V7A880 MB
It wants a setup but when I exit without the proper setup
it just quits the entire program.
BTW I am a newbie to all of this SDR stuff.
Please be gentle with me :-)

Marvin

16. Re: [kgksdr] Software does not seem to work with onboard audio card

Yahoo group: kgksdr
Date: 2005-12-28 00:56:14 UTC
From: Duncan Munro
Topic: 15 Message: 16

mmoss111 wrote:
> I have SoundMAX digital audio on my ASUS V7A880 MB
> It wants a setup but when I exit without the proper setup
> it just quits the entire program.
> BTW I am a newbie to all of this SDR stuff.
> Please be gentle with me :-)

Hi Marvin,

From what you say, it looks like you are pressing the [Cancel] button when asked to set up the soundcard initially, but without a soundcard the software cannot work (that's why it drops out completely if you press Cancel).

Hope this is some help to you.

--
Duncan Munro
http://www.m0kgk.co.uk/

17. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2005-12-28 11:52:14 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 17

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /AM Sound (JA9MAT)/RX_20051228_204331.mp3
Uploaded by : qrper723 <qrper72@...>
Description : BBC 9740KHz @ 28,Dec.2005 11:50(UTC)

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/AM%20Sound%20%28JA9MAT%29/RX_20051228_204331.mp
3

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

qrper723 <qrper72@...>
```

18. AM Sound Recording

Yahoo group: kgksdr
Date: 2005-12-28 11:57:56 UTC
From: qrper723
Topic: 18 Message: 18

Duncan,

I've tested about recording of AM mode.
And UP LOADED the sound files converted to mp3 format.
BBC World Service sounds good isn't it?

Thanks for your supporting.

hidehiko ja9mat

19. Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 14:52:01 UTC
From: n3hkn
Topic: 19 Message: 19

While I am getting the courage to go to the mall to get some Radio Shack silver solder, I am trying the software with "old-fashioned" audio from my old Kenwood TS-520S. I must say that it works quite well at processing the audio in terms of audio filtering and noise reduction. Actually, for general use it is a very practical audio processing system. I am sure that the I/Q inputs will be just as good.

I owned an SDR-1000 but sold it for two reasons - costs were climbing with needed addons from base unit, and the most practical was that I really do not need a hi-end radio with only a GAP Challenger multi-band vertical and a 1 meter square copper pipe loop on 20M. I have had several commercial radios of recent vintage, and while interesting to operate, they became boring/predictable after awhile. For well over $1000 I was locked into a "what-you-see-is-what-you-get" rig. It is much more fun to "mess" with the radio than receive a steady stream of 599 reports.

Some things I would like to see would be a variable bandwidth filter and a notch filter. One other note is that the CPU load is less than other SDR type software allowing me to use an older 400mhz Dell for Hamming and reserving the 2.5ghz PC for my Flight Simulator second addiction.

Dick N3HKN

20. Re: [kgksdr] Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 15:07:51 UTC
From: Duncan Munro
Topic: 19 Message: 20

n3hkn wrote:
> Some things I would like to see would be a variable bandwidth filter
> and a notch filter. One other note is that the CPU load is less than
> other SDR type software allowing me to use an older 400mhz Dell for
> Hamming and reserving the 2.5ghz PC for my Flight Simulator second
> addiction.

Hi Dick, the 'easy on the CPU' bit might go out the window - I'm just putting the finishing touches to the calibration and image correction modules which will eat up some more CPU (although these features can be switched off).

Filtering is one area where more work is needed, I've got a couple of dev items in the database one of which will cover off the notch filter, and the other will be two custom filters. These will have a 'tear off' window which can be used to fine tune settings on the fly.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

21. Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 15:25:30 UTC
From: n3hkn
Topic: 19 Message: 21

Excellent...!!

However, the V.17 software locks up when accessing the Options menu.
Tried on two different PCs. Windows XP/SP2.
Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > Some things I would like to see would be a variable bandwidth filter
> > and a notch filter. One other note is that the CPU load is less than
> > other SDR type software allowing me to use an older 400mhz Dell for
> > Hamming and reserving the 2.5ghz PC for my Flight Simulator second
> > addiction.
>
> Hi Dick, the 'easy on the CPU' bit might go out the window - I'm just
> putting the finishing touches to the calibration and image correction
> modules which will eat up some more CPU (although these features can be
> switched off).
>
> Filtering is one area where more work is needed, I've got a couple of
> dev items in the database one of which will cover off the notch filter,
> and the other will be two custom filters. These will have a 'tear off'
> window which can be used to fine tune settings on the fly.
>
> 73,
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

22. KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-29 16:02:30 UTC
From: Duncan Munro
Topic: 22 Message: 22

Folks,

Build 18 now available. Key updates:

* Context sensitive help file now with the software.

* Automatic calibration feature now finished (collecting data for calibration and applying the calibration data can be switched on and off as required).

* S9 calibration feature now available - you will need a sig gen for this one ;-)

Download from http://www.m0kgk.co.uk/sdr/

73,

Duncan M0KGK

23. Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 16:15:13 UTC
From: Duncan Munro
Topic: 19 Message: 23

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
> Excellent...!!
>
> However, the V.17 software locks up when accessing the Options menu.
> Tried on two different PCs. Windows XP/SP2.

Hi Dick, probably build 18 will do the same thing. I had some real problems with delays at startup for soundcard checking.

What 17/18 do is they check the soundcard capabilities (once only) when you go into the receiver options screen, for just your chosen input and output soundcards.

Some soundcards just 'play dead' when they get asked what capabilities they support, and the receiver options screen should come up after a few seconds even with the bad soundcards. If you go in subsequent times the options screen should come up instantly after that unless you change soundcard or restart the software.

This is obviously still a problem, so I will have a look and see if this can be trimmed down even further and let you know.

73,

Duncan M0KGK

24. Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 16:49:35 UTC
From: Duncan Munro
Topic: 19 Message: 24

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
> Excellent...!!
>
> However, the V.17 software locks up when accessing the Options menu.
> Tried on two different PCs. Windows XP/SP2.

OK, I've taken out the code which checks the soundcard capabilities when you go into Options|Receiver...

This causes a number of changes:

* There should be no delay when you go into Options|Receiver.

* The sample rates and bit depths will not be fine tuned for each particular card, instead of some options being greyed out, they are all available now. It's therefore possible to pick modes that your soundcard cannot handle...

* Invalid options will cause an error message. For example if you try to select 192kHz/32 bit on a $2.99 soundcard, KGKSDR will produce a "format not supported" for either the input or output device.

I just missed fitting this into build 18, but there is another build in the Files area of this group called kgksdr_n3hkn.exe which has the stuff above in it.

73,

Duncan M0KGK

25. Re: [kgksdr] Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 17:27:19 UTC
From: Michael Blake
Topic: 19 Message: 25

Duncan,

This software is getting VERY good. Thank you!

I am looking forward to the notch filter and the digital (psk & rtty) modes. Every day it is a new radio. I have been playing so much though that I have not started my new Softrock version 5 kits. I must get on that next week.

73 - Mike - K9JRI

Duncan Munro <m0kgk@...> wrote:
--- In kgksdr@yahoogroups.com, "n3hkn" wrote:
>
> Excellent...!!
>
> However, the V.17 software locks up when accessing the Options menu.
> Tried on two different PCs. Windows XP/SP2.

OK, I've taken out the code which checks the soundcard capabilities when you go into Options|Receiver...

This causes a number of changes:

* There should be no delay when you go into Options|Receiver.

* The sample rates and bit depths will not be fine tuned for each particular card, instead of some options being greyed out, they are all available now. It's therefore possible to pick modes that your soundcard cannot handle...

* Invalid options will cause an error message. For example if you try to select 192kHz/32 bit on a $2.99 soundcard, KGKSDR will produce a "format not supported" for either the input or output device.

I just missed fitting this into build 18, but there is another build in the Files area of this group called kgksdr_n3hkn.exe which has the stuff above in it.

73,

Duncan M0KGK

Yahoo! Groups Links

73 - Mike - K9JRI

26. Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-29 17:46:09 UTC
From: n3hkn
Topic: 19 Message: 26

Duncan,
A dely of 48 seconds (2.6ghz CPU) and 1.7 minutes (400mhz CPU) still
occur with the "n3hkn" file version. Once they expire everything seems
ok after brief testing...

Regards,
Dick
Windows XP/SP2 (both PCs) Turtle Beach on 400mhz and SBLive on 2.6Ghz.

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
> >
> > Excellent...!!
> >
> > However, the V.17 software locks up when accessing the Options menu.
> > Tried on two different PCs. Windows XP/SP2.
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> OK, I've taken out the code which checks the soundcard capabilities
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>
> * There should be no delay when you go into Options|Receiver.
>
> * The sample rates and bit depths will not be fine tuned for each
> particular card, instead of some options being greyed out, they are
> all available now. It's therefore possible to pick modes that your
> soundcard cannot handle...
>
> * Invalid options will cause an error message. For example if you try
> to select 192kHz/32 bit on a $2.99 soundcard, KGKSDR will produce a
> "format not supported" for either the input or output device.
>
> I just missed fitting this into build 18, but there is another build
> in the Files area of this group called kgksdr_n3hkn.exe which has the
> stuff above in it.
>
> 73,
>
> Duncan M0KGK
>

27. Re: [kgksdr] Re: Best Software (so far)

Yahoo group: kgksdr
Date: 2005-12-30 04:34:54 UTC
From: Stan Rife
Topic: 19 Message: 27

Duncan, I locked up V.17 this evening doing a rapid tune (ie; grabbing the tune bar with the CTRL key held down. I was swishing back and forth rather rapidly, and it locked up on me.

Stan
W5EWA
Houston, TX

n3hkn <n3hkn@...> wrote:
Excellent...!!

However, the V.17 software locks up when accessing the Options menu.
Tried on two different PCs. Windows XP/SP2.
Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > Some things I would like to see would be a variable bandwidth filter
> > and a notch filter. One other note is that the CPU load is less than
> > other SDR type software allowing me to use an older 400mhz Dell for
> > Hamming and reserving the 2.5ghz PC for my Flight Simulator second
> > addiction.
>
> Hi Dick, the 'easy on the CPU' bit might go out the window - I'm just
> putting the finishing touches to the calibration and image correction
> modules which will eat up some more CPU (although these features can be
> switched off).
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> Filtering is one area where more work is needed, I've got a couple of
> dev items in the database one of which will cover off the notch filter,
> and the other will be two custom filters. These will have a 'tear off'
> window which can be used to fine tune settings on the fly.
>
> 73,
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

YAHOO! GROUPS LINKS

Visit your group "kgksdr" on the web.

To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

---

28. Re: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-30 04:36:22 UTC
From: Stan Rife
Topic: 22 Message: 28

Oooops, sorry Duncan, it was V.18 that you just released that locked up on me. I had to stop the software and restart to get it back going.

Stan
W5EWA
Houston, TX

Duncan Munro <m0kgk@...> wrote:
Folks,

Build 18 now available. Key updates:

* Context sensitive help file now with the software.

* Automatic calibration feature now finished (collecting data for calibration and applying the calibration data can be switched on and off as required).

* S9 calibration feature now available - you will need a sig gen for this one ;-)

Download from http://www.m0kgk.co.uk/sdr/

73,

Duncan M0KGK

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---

29. Re: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-30 11:08:27 UTC
From: Duncan Munro
Topic: 22 Message: 29

Stan Rife wrote:
> Oooops, sorry Duncan, it was V.18 that you just released that locked up
> on me. I had to stop the software and restart to get it back going.

Hi Stan, thanks for the info. I'll do some "agressive tuning" and see
if I can make it do the same thing here.

Just for a bit of extra background info, what sort of load is the CPU%
indicator running at when you're not tuning around?

Also, did the software just become inactive or did you have to kill it
off with Ctrl-Alt-Del?

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

30. RE: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-30 18:59:13 UTC
From: Stan Rife
Topic: 22 Message: 30

Duncan, my processor runs at 100% most of the time, because I am running the Seti/Boinc software. What is not in use by other applications gets used for Seti.

I probably need to temporarily disable Seti, and then try it and see if I can duplicate. It may well be a resource problem with the Seti stuff running.

Thanks,

Stan

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Friday, December 30, 2005 5:08 AM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] KGKSDR build 18

Stan Rife wrote:
> Oooops, sorry Duncan, it was V.18 that you just released that locked up
> on me. I had to stop the software and restart to get it back going.

Hi Stan, thanks for the info. I'll do some "agressive tuning" and see if I can make it do the same thing here.

Just for a bit of extra background info, what sort of load is the CPU% indicator running at when you're not tuning around?

Also, did the software just become inactive or did you have to kill it off with Ctrl-Alt-Del?

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

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---

31. Re: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-30 20:09:56 UTC
From: Duncan Munro
Topic: 22 Message: 31

Stan Rife wrote:
> Duncan, my processor runs at 100% most of the time, because I am
> running the Seti/Boinc software. What is not in use by other
> applications gets used for Seti.
>
> I probably need to temporarily disable Seti, and then try it and see
> if I can duplicate. It may well be a resource problem with the Seti
> stuff running.

Hi Stan,

I've had a good few hours of tuning like a Dervish, and I cannot get the software to hang by tuning alone.

I can get it to do long pauses (looks like it has hung, but it's just fighting for CPU and nothing works for quite a few seconds). The way to do this is to set the priority quite high on KGKSDR and have some other high priority tasks running, or a stack of normal priority tasks.

What then happens is the receiver core builds up a backlog of 'things to do' when you are holding down control and waggling the mouse. The user interface for KGKSDR is then starved of CPU so the display freezes, none of the controls work, etc. It will come back eventually.

What I would suggest is turn the priority on KGKSDR through the Receiver options to "normal". This will give the user interface the same priority as the receiver.

I don't know much about Seti, but if there is a way to set the priority to lower or idle it might be worth trying.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

32. RE: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-31 00:08:19 UTC
From: Stan Rife
Topic: 22 Message: 32

Yes, I believe that is possible. I'll play with it this evening and see what I come up with. Your findings are probably exactly what happened to me, I just thought it hung up because it didn't respond for several seconds. And you know what ALL good Windows users do...Ctrl Alt Del in a crisis. Hi Hi.

I'll let you know how I come out

Thanks a bunch, Duncan, I love this software,

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@...m] On Behalf Of Duncan Munro
Sent: Friday, December 30, 2005 2:10 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] KGKSDR build 18

Stan Rife wrote:
> Duncan, my processor runs at 100% most of the time, because I am
> running the Seti/Boinc software. What is not in use by other
> applications gets used for Seti.
>
> I probably need to temporarily disable Seti, and then try it and see
> if I can duplicate. It may well be a resource problem with the Seti
> stuff running.

Hi Stan,

I've had a good few hours of tuning like a Dervish, and I cannot get the software to hang by tuning alone.

I can get it to do long pauses (looks like it has hung, but it's just fighting for CPU and nothing works for quite a few seconds). The way to do this is to set the priority quite high on KGKSDR and have some other high priority tasks running, or a stack of normal priority tasks.

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What I would suggest is turn the priority on KGKSDR through the Receiver options to "normal". This will give the user interface the same

priority as the receiver.

I don't know much about Seti, but if there is a way to set the priority
to lower or idle it might be worth trying.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

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-----

33. RE: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-31 00:34:17 UTC
From: Stan Rife
Topic: 22 Message: 33

Duncan, that seemed to resolve it. I turned the receiver priority up to Highest, and all seems ok now.

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Friday, December 30, 2005 2:10 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] KGKSDR build 18

Stan Rife wrote:
> Duncan, my processor runs at 100% most of the time, because I am
> running the Seti/Boinc software. What is not in use by other
> applications gets used for Seti.
>
> I probably need to temporarily disable Seti, and then try it and see
> if I can duplicate. It may well be a resource problem with the Seti
> stuff running.

Hi Stan,

I've had a good few hours of tuning like a Dervish, and I cannot get the software to hang by tuning alone.

I can get it to do long pauses (looks like it has hung, but it's just fighting for CPU and nothing works for quite a few seconds). The way to do this is to set the priority quite high on KGKSDR and have some other high priority tasks running, or a stack of normal priority tasks.

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I don't know much about Seti, but if there is a way to set the priority to lower or idle it might be worth trying.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

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---

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34. Re: [kgksdr] KGKSDR build 18

Yahoo group: kgksdr
Date: 2005-12-31 01:07:00 UTC
From: Duncan Munro
Topic: 22 Message: 34

Stan Rife wrote:
> Duncan, that seemed to resolve it. I turned the receiver priority up
> to Highest, and all seems ok now.

Hi Stan, sounds like things are sorted out OK now but I think I'm going to have to put a "health warning on the packet" with KGKSDR.

It's a real time "heavy use" app (which Windows is not particularly good at). The FAQ is going to get a re-work, and I guess the advice is going to be not to try and run other apps at the same time.

I had to deliberately run truckloads of heavy duty stuff today to get it to screw up, but it can be done. Moral: As they say in the UK, you can't get a quart in a pint pot ;-)

73 and best wishes for the New Year,

--
Duncan Munro
http://www.m0kgk.co.uk/

35. Delay - First Use Of Options/Receiver

Yahoo group: kgksdr
Date: 2005-12-31 13:40:29 UTC
From: n3hkn
Topic: 35 Message: 35

On my 2.6ghz system it takes 1min 40sec for the program to resume after clicking on Receiver under the Options menu. Before that all works ok and once the "apperent lockup" completes all works ok.

Using Windows XP/SP2 with a Turtle Beach Santa Cruz card at 96khz. Receiver set to Highest Priority.

One little feature I would like is to retain the Zoom setting between startups.

Setting the DSP at 50 threshold and 5 Expansion works best for me - just a note.

Regards,
Dick N3HKN

36. Re: [kgksdr] Delay - First Use Of Options/Receiver

Yahoo group: kgksdr
Date: 2005-12-31 15:39:59 UTC
From: Duncan Munro
Topic: 35 Message: 36

n3hkn wrote:
> On my 2.6ghz system it takes 1min 40sec for the program to resume
> after clicking on Receiver under the Options menu. Before that all
> works ok and once the "apperent lockup" completes all works ok.
>
> Using Windows XP/SP2 with a Turtle Beach Santa Cruz card at 96khz.
> Receiver set to Highest Priority.

Dick, did you get the email I sent on Thursday about the debug version?
I'd really like to get to the bottom of this issue.

> One little feature I would like is to retain the Zoom setting between
> startups.

OK - I've added this to the list.

> Setting the DSP at 50 threshold and 5 Expansion works best for me -
> just a note.

Thanks for the tip. I find I'm using different settings for SSB and CW,
so there's still some activity going on regarding the best way to sort
this one out.

--
Duncan Munro
http://www.m0kgk.co.uk/

37. Re: Delay - First Use Of Options/Receiver

Yahoo group: kgksdr
Date: 2005-12-31 16:12:06 UTC
From: n3hkn
Topic: 35 Message: 37

No I did not get the email. You can get me at N3HKN @ Yahoo.com
N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > On my 2.6ghz system it takes 1min 40sec for the program to resume
> > after clicking on Receiver under the Options menu. Before that all
> > works ok and once the "apperent lockup" completes all works ok.
> >
> > Using Windows XP/SP2 with a Turtle Beach Santa Cruz card at 96khz.
> > Receiver set to Highest Priority.
>
> Dick, did you get the email I sent on Thursday about the debug version?
> I'd really like to get to the bottom of this issue.
>
> > One little feature I would like is to retain the Zoom setting between
> > startups.
>
> OK - I've added this to the list.
>
> > Setting the DSP at 50 threshold and 5 Expansion works best for me -
> > just a note.
>
> Thanks for the tip. I find I'm using different settings for SSB and
CW,
> so there's still some activity going on regarding the best way to sort
> this one out.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

38. Re: Delay - First Use Of Options/Receiver

Yahoo group: kgksdr
Date: 2005-12-31 18:18:41 UTC
From: n3hkn
Topic: 35 Message: 38

Debug ver does not have the problem! Sent you an email..
Dick

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
> No I did not get the email. You can get me at N3HKN @ Yahoo.com
> N3HKN
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> >
> > n3hkn wrote:
> > > On my 2.6ghz system it takes 1min 40sec for the program to resume
> > > after clicking on Receiver under the Options menu. Before that all
> > > works ok and once the "apperent lockup" completes all works ok.
> > >
> > > Using Windows XP/SP2 with a Turtle Beach Santa Cruz card at 96khz.
> > > Receiver set to Highest Priority.
> >
> > Dick, did you get the email I sent on Thursday about the debug
version?
> > I'd really like to get to the bottom of this issue.
> >
> > > One little feature I would like is to retain the Zoom setting
between
> > > startups.
> >
> > OK - I've added this to the list.
> >
> > > Setting the DSP at 50 threshold and 5 Expansion works best for me -
> > > just a note.
> >
> > Thanks for the tip. I find I'm using different settings for SSB and
> CW,
> > so there's still some activity going on regarding the best way to
sort
> > this one out.
> >
> > --
> > Duncan Munro
> > http://www.m0kgk.co.uk/
> >
>

39. Re: [kgksdr] Re: Delay - First Use Of Options/Receiver

Yahoo group: kgksdr
Date: 2005-12-31 19:21:38 UTC
From: Duncan Munro
Topic: 35 Message: 39

n3hkn wrote:
> Debug ver does not have the problem! Sent you an email..

Thanks Dick, just about to release build 20 in the next hour or so which
has the fixes in (and a few other goodies).

--
Duncan Munro
http://www.m0kgk.co.uk/

40. KGKSDR build 20

Yahoo group: kgksdr
Date: 2005-12-31 19:40:34 UTC
From: Duncan Munro
Topic: 40 Message: 40

Build 20 now available from http://www.m0kgk.co.uk/sdr/

ENHANCEMENTS

* Variable width "user" filters.
* Screen layout re-designed, new LCD colour scheme.

FIXES

* Checks on soundcards removed, where there's a long pause on startup
it should now be fixed.
* AGC/Mode/Filter/Zoom now save and reload correctly.

73 and all the best for the New Year.

Duncan M0KGK

42. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 08:27:24 UTC
From: qrper723
Topic: 40 Message: 42

Duncan,

A happy new year.

Thanks for build/20 version.
But I can't run that now.
Menu is ok and the start button push,no things occurs and
stop the program. hi.

Any suggestions?

hidehiko ja9mat

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> Build 20 now available from http://www.m0kgk.co.uk/sdr/
>
> ENHANCEMENTS
>
> * Variable width "user" filters.
> * Screen layout re-designed, new LCD colour scheme.
>
> FIXES
>
> * Checks on soundcards removed, where there's a long pause on
startup
> it should now be fixed.
> * AGC/Mode/Filter/Zoom now save and reload correctly.
>
> 73 and all the best for the New Year.
>
> Duncan M0KGK
>

43. Re: [kgksdr] Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 12:32:17 UTC
From: Duncan Munro
Topic: 40 Message: 43

qrper723 wrote:
> Thanks for build/20 version.
> But I can't run that now.
> Menu is ok and the start button push,no things occurs and
> stop the program. hi.

n3hkn wrote:
> All versions will some how get into a state where they do not get past
> the Initialisation step on startup. Waiting over an hour results in no
> change No CPU load and around 8.45mb of memory attached. I do know
> what triggers the condition. It suddenly appears for all versions
> probably from some un-remembered fiddling I did.

Happy New Year to you both, I've put together a debug version of build 20 which was released last night, it's now in the files area as a zip file at: http://groups.yahoo.com/group/kgksdr/files/Debug%20stuff/

If you run this file it will create a text file on the hard disk called c:\kgksdr_debug.txt

This file contains info from the startup and identifies where the hanging-up occurs. Can you both run the debug file, and send the kgksdr_debug.txt file back to me?

--
Duncan Munro
http://www.m0kgk.co.uk/

44. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 12:51:18 UTC
From: qrper723
Topic: 40 Message: 44

Duncan,

Hi,

I ran this debuging program but only "Initialization Complete"
message on the display and then no-answer.

This program hang-up itself.

Thanks....hidehiko ja9mat

> This file contains info from the startup and identifies where the
> hanging-up occurs. Can you both run the debug file, and send the
> kgksdr_debug.txt file back to me?

45. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 12:54:13 UTC
From: qrper723
Topic: 40 Message: 45

Duncan,

Program can not operate from the build-18.
I can operate well until build-17.

Would you please put the build-17 zip file
on this group?

I'd like to record some BC stations tomorrow.
Thnaks 72!

hidehiko ja9mat

46. Re: [kgksdr] Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 13:00:58 UTC
From: Duncan Munro
Topic: 40 Message: 46

qrper723 wrote:
> Duncan,
>
> Hi,
>
> I ran this debuging program but only "Initialization Complete"
> message on the display and then no-answer.
>
> This program hang-up itself.

OK - can you send me the file c:\kgksdr_debug.txt ??

--
Duncan Munro
http://www.m0kgk.co.uk/

47. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 13:09:19 UTC
From: qrper723
Topic: 40 Message: 47

Duncan,

I found the .txt file as follows.

------Quote

```
200: [TWavInput.Create] ENTER
200: [TWavInput.ResetBuffers] ENTER
200: [TWavInput.ResetBuffer] ENTER / index(0)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(1)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(2)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(3)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(4)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(5)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(6)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(7)
200: [TWavInput.ResetBuffer] EXIT
200: [TWavInput.ResetBuffer] ENTER / index(8)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(9)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(10)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(11)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(12)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(13)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(14)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(15)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(16)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(17)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(18)
210: [TWavInput.ResetBuffer] EXIT
```

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210: [TWavInput.ResetBuffer] ENTER / index(19)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(20)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(21)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(22)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(23)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(24)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(25)
210: [TWavInput.ResetBuffer] EXIT
210: [TWavInput.ResetBuffer] ENTER / index(26)
220: [TWavInput.ResetBuffer] EXIT
220: [TWavInput.ResetBuffer] ENTER / index(27)
220: [TWavInput.ResetBuffer] EXIT
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220: [TWavInput.ResetBuffer] EXIT
220: [TWavInput.ResetBuffer] ENTER / index(29)
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220: [TWavInput.ResetBuffer] ENTER / index(39)
220: [TWavInput.ResetBuffer] EXIT
220: [TWavInput.ResetBuffers] EXIT
220: [TWavInput.Create] EXIT
220: [TWavInput.SetBufSize] ENTER 512
220: [TWavInput.ResetBuffers] ENTER
220: [TWavInput.ResetBuffer] ENTER / index(0)
220: [TWavInput.ResetBuffer] EXIT
220: [TWavInput.ResetBuffer] ENTER / index(1)
220: [TWavInput.ResetBuffer] EXIT
```

```
220: [TWavInput.ResetBuffer] ENTER / index(2)
220: [TWavInput.ResetBuffer] EXIT
220: [TWavInput.ResetBuffer] ENTER / index(3)
220: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(4)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(5)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(6)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(7)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(8)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(9)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(10)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(11)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(12)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(13)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(14)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(15)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(16)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(17)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(18)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(19)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(20)
230: [TWavInput.ResetBuffer] EXIT
230: [TWavInput.ResetBuffer] ENTER / index(21)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(22)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(23)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(24)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(25)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(26)
240: [TWavInput.ResetBuffer] EXIT
```

```
240: [TWavInput.ResetBuffer] ENTER / index(27)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(28)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(29)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(30)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(31)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(32)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(33)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(34)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(35)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(36)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(37)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(38)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffer] ENTER / index(39)
240: [TWavInput.ResetBuffer] EXIT
240: [TWavInput.ResetBuffers] EXIT
240: [TWavInput.SetBufSize] EXIT
250: [TWavInput.SetIQBitDepth] ENTER 16
250: [TWavInput.SetIQBitDepth] EXIT
250: [TWavInput.SetIQSampleRate] ENTER 44100
250: [TWavInput.SetIQSamplerate] EXIT
250: [TWavInput.SetIQSoundcard] ENTER 0
250: [TWavInput.SetIQSoundcard] EXIT
290: [TfrmKgkSdr.FormCreate] Checking soundcard list
300: [ReadSoundcardList] ENTER
460: [ReadSoundcardList] WaveInGetNumDevs reports 2
460: [ReadSoundcardList] WaveOutGetNumDevs reports 2
460: [ReadSoundcardList] EXIT
460: [TfrmKgkSdr.FormCreate] Done checking soundcard list
460: [TfrmKgkSdr.FormCreate] Setting window positions
470: [TfrmKgkSdr.FormCreate] Setting up CPU colour map
490: [TWavInput.SetIQSoundcard] ENTER 0
490: [TWavInput.SetIQSoundcard] EXIT
490: [TWavInput.SetIQSampleRate] ENTER 48000
490: [TWavInput.SetIQSamplerate] EXIT
490: [TWavInput.SetIQBitDepth] ENTER 16
490: [TWavInput.SetIQBitDepth] EXIT
500: [TReceiver.SetInBitsPerSample] Setting input bits per sample to
16
```

```
500: [TReceiver.SetInSamplerate] Setting input samplerate to 48000
531: [TReceiver.SetInBitsPerSample] Setting input bits per sample to
16
531: [TReceiver.SetInSamplerate] Setting input samplerate to 48000
541: [TReceiver.ProcStartup] ENTRY
541: [TReceiver.ProcStartup] ENTRY
541: [TReceiver.SetInBitsPerSample] Setting input bits per sample to
16
541: [TReceiver.SetInSamplerate] Setting input samplerate to 48000

----End
```

48. Re: [kgksdr] Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 13:39:03 UTC
From: Duncan Munro
Topic: 40 Message: 48

qrper723 wrote:
> Duncan,
>
> Program can not operate from the build-18.
> I can operate well until build-17.
>
> Would you please put the build-17 zip file
> on this group?
>
> I'd like to record some BC stations tomorrow.
> Thnaks 72!

Hi Hidehiko, it's in the files area of the Yahoo group under "KGKSDR old build":

http://groups.yahoo.com/group/kgksdr/files/KGKSDR%20old%20build/

--
Duncan Munro
http://www.m0kgk.co.uk/

49. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 13:47:35 UTC
From: qrper723
Topic: 40 Message: 49

Hi,Duncan,

Thanks.

I tried build-17 version now but I can not boot.
The same display as before and the program stopped.

Umm...Something changed in my PC?

hidehiko ja9mat

> Hi Hidehiko, it's in the files area of the Yahoo group under "KGKSDR
old
> build":
>
> http://groups.yahoo.com/group/kgksdr/files/KGKSDR%20old%20build/

50. Re: KGKSDR build 20

Yahoo group: kgksdr
Date: 2006-01-01 14:01:50 UTC
From: n3hkn
Topic: 40 Message: 50

Under My Documents folder is Applications. In there is a folder from
Duncan. ERASE it and it may solve lockup problems. It did for me.
Dick N3HKN

-- In kgksdr@yahoogroups.com, "qrper723" <qrper72@y...> wrote:
>
> Hi,Duncan,
>
> Thanks.
>
> I tried build-17 version now but I can not boot.
> The same display as before and the program stopped.
>
> Umm...Something changed in my PC?
>
> hidehiko ja9mat
>
> > Hi Hidehiko, it's in the files area of the Yahoo group under "KGKSDR
> old
> > build":
> >
> > http://groups.yahoo.com/group/kgksdr/files/KGKSDR%20old%20build/
>

51. Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-01 14:07:15 UTC
From: n3hkn
Topic: 51 Message: 51

I had the startup problems and deleted the program's folder under the My Documents -- Applications. Then ran for several hours without any problems in various modes.

There is one problem that came up later when I experimented with the filter sliders. You can take a slider into "negative territory" and the program will lock up. Other than that it was ok.

Windows XP/SP2 2.6ghz Turthe Beach soundcard.

Dick N3HKN

52. Re: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-01 16:35:52 UTC
From: Duncan Munro
Topic: 51 Message: 52

n3hkn wrote:
> I had the startup problems and deleted the program's folder under the
> My Documents -- Applications. Then ran for several hours without any
> problems in various modes.
>
> There is one problem that came up later when I experimented with the
> filter sliders. You can take a slider into "negative territory" and
> the program will lock up. Other than that it was ok.

Dick, thanks for the info. I've spotted a potentional problem based on the info you've posted above.

Going back to earlier versions of the software will cause KGKSDR to use to try and use new style calibration maps which could hang the software.

From build 18 onwards, there is code in there to 'version control' the calibration map so new software won't get screwed up by older maps. Sadly, it doesn't work in reverse because the code just wasn't there in the earlier versions.

Hidehiko: Check the advice from Dick about deleting the old maps. These live in:

C:\Documents and Settings\<my-login-name>\Application Data\
Duncan Amplification\KGKSDR

If you delete everything from this folder, you should be able to run any build of the software OK.

--
Duncan Munro
http://www.m0kgk.co.uk/

53. RE: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-01 21:49:24 UTC
From: Stan Rife
Topic: 51 Message: 53

Would a lilttle short routine to check for and delete these files upon starting installation of a new version, fix it? Just a suggestion. I really know nothing about programming, Duncan.

Stan

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Sunday, January 01, 2006 10:36 AM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Build-20 Works In My Case

n3hkn wrote:
> I had the startup problems and deleted the program's folder under the
> My Documents -- Applications. Then ran for several hours without any
> problems in various modes.
>
> There is one problem that came up later when I experimented with the
> filter sliders. You can take a slider into "negative territory" and
> the program will lock up. Other than that it was ok.

Dick, thanks for the info. I've spotted a potentional problem based on the info you've posted above.

Going back to earlier versions of the software will cause KGKSDR to use to try and use new style calibration maps which could hang the software.

From build 18 onwards, there is code in there to 'version control' the calibration map so new software won't get screwed up by older maps. Sadly, it doesn't work in reverse because the code just wasn't there in the earlier versions.

Hidehiko: Check the advice from Dick about deleting the old maps. These live in:

C:\Documents and Settings\<my-login-name>\Application Data\Duncan Amplification\KGKSDR

If you delete everything from this folder, you should be able to run any build of the software OK.

--
Duncan Munro
http://www.m0kgk.co.uk/

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---

YAHOO! GROUPS LINKS

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on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
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<http://docs.yahoo.com/info/terms/> .

---

54. Re: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-01 23:33:43 UTC
From: Duncan Munro
Topic: 51 Message: 54

Stan Rife wrote:
> Would a lilttle short routine to check for and delete these files
> upon starting installation of a new version, fix it? Just a suggestion.
> I really know nothing about programming, Duncan.

Hi Stan, there is code in there to do that since build 18. Where the problem creeps in, is trying to go back to older versions which don't have the capability to fix the problem (I guess you can't rewrite history).

It's ironic that the problem has been caused by trying to 'version' the thing in the first place. Good intentions, bad result :-(

On a lighter note, I'm just about to put out build 21 which has a stack of new features in it and some fixes for quite a number of things including the filter problem you identified.

--
Duncan Munro
http://www.m0kgk.co.uk/

55. KGKSDR build 21

Yahoo group: kgksdr
Date: 2006-01-01 23:42:42 UTC
From: Duncan Munro
Topic: 55 Message: 55

Build 21 now available, a few extra "tweaks" that people have been asking for and a stack of fixes. Happy New Year to You all!

Download at: http://www.m0kgk.co.uk/sdr/

FIXED: Calibration chart phase degrees not showing grid correctly, also labels now added to the X and Y axes.

FIXED: Limits now on user defined filter to stop low freq being greater than high frequency which could cause the software to crash.

FIXED: Problem with filters where moving from AM to CWU (for example) would pull up the custom CW filter rather than a preset.

FIXED: Consistency problems with the AGC release speed. For fast/med/slow should now provide roughly 40dB/20dB/10dB of release per second irrespective of the samplerate being used.

ADDED: Display options tab now available in receiver options. This controls the new parameters for the spectrum display and was created due to lack of room on the 'general' tab.

ADDED: Solid fill option for spectrum display. Instead of drawing the spectrum with a line it can now be filled in if required.

ADDED: Spectrum filter (Options -> Receiver -> Display to turn it on and off).

ADDED: Polyphase FFT, again this is a display option which can be turned on and off.

73,

Duncan M0KGK

56. Re: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-01 23:47:17 UTC
From: Duncan Munro
Topic: 51 Message: 56

Duncan Munro wrote:

> On a lighter note, I'm just about to put out build 21 which has a stack
> of new features in it and some fixes for quite a number of things
> including the filter problem you identified.

Apologies - it was picked up by Dick N3HKN...

--
Duncan Munro
http://www.m0kgk.co.uk/

57. RE: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-02 00:27:54 UTC
From: Stan Rife
Topic: 51 Message: 57

If you're refering to the neg filter setting locking it up (?), that was sent in by someone else. I did read it, though I have not tried to duplicate it.

Would it be possible to use, say, ALT left arrow & right arrow (forward/backward) to make it jump from the current signal to the next signal. One of the other programs does this (I can't remember which one), but I thought that was a neat feature

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Sunday, January 01, 2006 5:34 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Build-20 Works In My Case

Stan Rife wrote:
> Would a lilttle short routine to check for and delete these files
> upon starting installation of a new version, fix it? Just a suggestion.
> I really know nothing about programming, Duncan.

Hi Stan, there is code in there to do that since build 18. Where the problem creeps in, is trying to go back to older versions which don't have the capability to fix the problem (I guess you can't rewrite history).

It's ironic that the problem has been caused by trying to 'version' the thing in the first place. Good intentions, bad result :-(

On a lighter note, I'm just about to put out build 21 which has a stack of new features in it and some fixes for quite a number of things including the filter problem you identified.

--
Duncan Munro
http://www.m0kgk.co.uk/

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---

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<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

---

58. Re: [kgksdr] KGKSDR build 21

Yahoo group: kgksdr
Date: 2006-01-02 00:31:58 UTC
From: Ken N9VV
Topic: 55 Message: 58

Duncan, you must have heard this a million times,
T H A N K Y O U x10^6 :-)

Your SDR program works like magic with my SoftRock 3.0 version. This is just phenomenal. I am grateful to you for sharing your skill and more importantly your generosity and Ham style. There are very few hams who have achieved the level that you have set.

Bob G3UKB is recoding the Flex Console using a variant of SmallTalk called "Squeak" (http://myweb.tiscali.co.uk/g3ukb/). Maybe over time we can get him to adapt his code to support the SoftRock? That would indeed be opensource.

This certainly is a great time to be in Ham Radio!

I wish you a Healthy, Happy, and Prosperous 2006. Thank you again for your kindness and patience with each of us guys who is just starting out with SDR.

de Ken N9VV

59. Re: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-02 00:36:49 UTC
From: Duncan Munro
Topic: 51 Message: 59

Stan Rife wrote:
> If you're refering to the neg filter setting locking it up (?), that
> was sent in by someone else. I did read it, though I have not tried to
> duplicate it.
>
> Would it be possible to use, say, ALT left arrow & right arrow
> (forward/backward) to make it jump from the current signal to the next
> signal. One of the other programs does this (I can't remember which
> one), but I thought that was a neat feature

Hi Stan, I think if any app can do that it's probably Rocky. I need to spend more time on it - it's a shining example of "how things should be done" and a constant source of inspiration for KGKSDR.

--
Duncan Munro
http://www.m0kgk.co.uk/

60. Re: [kgksdr] KGKSDR build 21

Yahoo group: kgksdr
Date: 2006-01-02 00:50:38 UTC
From: Duncan Munro
Topic: 55 Message: 60

Ken N9VV wrote:
> Duncan, you must have heard this a million times,
> *T H A N K Y O U* x10^6 :-)
>
> Your SDR program works like magic with my SoftRock 3.0
> version. This is just phenomenal. I am grateful to you for
> sharing your skill and more importantly your generosity
> and Ham style. There are very few hams who have achieved
> the level that you have set.

Hi Ken, KGKSDR is a 'small league player' at this point in time but I have learnt a lot from it over the last couple of weeks (which was my objective!)

> Bob G3UKB is recoding the Flex Console using a variant of
> SmallTalk called "Squeak"
> (http://myweb.tiscali.co.uk/g3ukb/). Maybe over time we
> can get him to adapt his code to support the SoftRock?
> That would indeed be opensource.

I had a look at the web page - it's certainly very different to what I've seen before and it looks like a great deal of thought is going into it. It's nice that people like Bob are taking a fresh look at how it all bolts together, and aren't frightened to take some bold steps.

> This certainly is a great time to be in Ham Radio!

Indeed. What would really light my fire right now is a Softrock type kit but with TX capability of 5-10W and a DDS to play tunes in the right places.

> I wish you a Healthy, Happy, and Prosperous 2006. Thank
> you again for your kindness and patience with each of us
> guys who is just starting out with SDR.

And a Happy New Year to your and yours too! I guess 2006 is going to be a definitive year for SDR - the momentum caused by FlexRadio and Softrock is amazing ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

61. RE: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-02 01:06:51 UTC
From: Stan Rife
Topic: 51 Message: 61

I agree, Duncan. Alex has done a "sterling" (as you say) job with Rocky.
I go back and forth between the two and compare how they perform. Can't tell
any difference. Of course mine is an untrained ear.

73's and tks for all ur hard work,

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@...m] On Behalf Of
Duncan Munro
Sent: Sunday, January 01, 2006 6:37 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Build-20 Works In My Case

Stan Rife wrote:
> If you're refering to the neg filter setting locking it up (?), that
> was sent in by someone else. I did read it, though I have not tried to
> duplicate it.
>
> Would it be possible to use, say, ALT left arrow & right arrow
> (forward/backward) to make it jump from the current signal to the next
> signal. One of the other programs does this (I can't remember which
> one), but I thought that was a neat feature

Hi Stan, I think if any app can do that it's probably Rocky. I need to
spend more time on it - it's a shining example of "how things should be
done" and a constant source of inspiration for KGKSDR.

--
Duncan Munro
http://www.m0kgk.co.uk/

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<http://docs.yahoo.com/info/terms/> .

---

62. Re: [kgksdr] Build-20 Works In My Case

Yahoo group: kgksdr
Date: 2006-01-02 01:23:19 UTC
From: Duncan Munro
Topic: 51 Message: 62

Stan Rife wrote:
> I agree, Duncan. Alex has done a "sterling" (as you say) job with
> Rocky. I go back and forth between the two and compare how they perform.
> Can't tell any difference. Of course mine is an untrained ear.

Hi Stan, Alex is "up with the Gods" on the way he has put Rocky
together. There are a number of innovative ideas in there (for example,
the automatic calibration and the filtered spectrum display).

Thankfully, he has been generous enough to share his ideas generally
with others on his web page, and in particular has helped me out with
the math side of things to the point where I can implement the same
concepts in KGKSDR.

--
Duncan Munro
http://www.m0kgk.co.uk/

63. Re: Build-20 Works In My Case(TKS Dick&Duncan)

Yahoo group: kgksdr
Date: 2006-01-02 01:29:32 UTC
From: qrper723
Topic: 51 Message: 63

Dick & Duncan,

OK all! Thanks for your support.
I've erase all under the "Duncan Application" Folder.

I ran it well!
But in my case:

"START PROGRAM" -> OK smoothly!
"END PROGRAM" -> OK stopped.
"START PROGRAM" <Again> -> Hang-UP the Program!

So I need "CTRL+ALT+DEL" then stop the program manually
and again START from initially.
It's not a fatal problem for me.

Anyway the new version buid-21 works here!
Nice looking interface and useful new function there.
It's my new year present.

Thanks again.

hidehiko ja9mat

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I had the startup problems and deleted the program's folder under
the
> > My Documents -- Applications. Then ran for several hours without
any
> > problems in various modes.
> >
> > There is one problem that came up later when I experimented with
the
> > filter sliders. You can take a slider into "negative territory"
and
> > the program will lock up. Other than that it was ok.
>
> Dick, thanks for the info. I've spotted a potentional problem
based on
> the info you've posted above.
>
> Going back to earlier versions of the software will cause KGKSDR to
use
> to try and use new style calibration maps which could hang the
software.

>
> From build 18 onwards, there is code in there to 'version control'
the
> calibration map so new software won't get screwed up by older maps.
> Sadly, it doesn't work in reverse because the code just wasn't
there in
> the earlier versions.
>
> Hidehiko: Check the advice from Dick about deleting the old maps.
These
> live in:
>
> C:\Documents and Settings\<my-login-name>\Application Data\
> Duncan Amplification\KGKSDR
>
> If you delete everything from this folder, you should be able to
run any
> build of the software OK.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

64. Re: Build-20 Works In My Case(TKS Dick&Duncan)

Yahoo group: kgksdr
Date: 2006-01-02 01:34:02 UTC
From: Duncan Munro
Topic: 51 Message: 64

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@y...> wrote:
> So I need "CTRL+ALT+DEL" then stop the program manually
> and again START from initially.
> It's not a fatal problem for me.

Hi Hidehiko,

OK - I need to do some more work on this and may need you to help out with some more debug stuff?

> Anyway the new version buid-21 works here!
> Nice looking interface and useful new function there.
> It's my new year present.

It's starting to look quite tidy - hope you got to hear the BBC World Service OK ;-)

73,

Duncan, M0KGK

65. Re: Build-20 Works In My Case(TKS Dick&Duncan)

Yahoo group: kgksdr
Date: 2006-01-02 02:05:11 UTC
From: qrper723
Topic: 51 Message: 65

Duncan,

Ok!
Welcome to be your debug stuff.
In this holidays to 5th Jan I have a time to test KGKSDR enough.

And also I will check that after my work from 6th Jan. hi.
The time difference exist 8-hours between the UK and Japan.
It is efficient for debugging?
Also in our company the software development team uses this time
differences.

Please let me know what you need anytime.

I will up the sound files recorded by KGKSDR to my website later.
BBC and Deutsche Welle major EU stations can be heard with your
software.It's convenience to collect the sound of shortwave radio.

Thanks.

hidehiko ja9mat

> OK - I need to do some more work on this and may need you to help
out
> with some more debug stuff?

66. Sound File of BBC both .wav and IQ

Yahoo group: kgksdr
Date: 2006-01-02 04:43:54 UTC
From: qrper723
Topic: 66 Message: 66

Hi,all.

I've updated the sound files as below;

http://www.geocities.jp/qrper72/srv5spurious.html

BBC of High Band is not so strong today. hi.
I'm receiving BBC whole of the day and KGKSDR is stable now.

IQ file is .zip so you need to extract.
You can feel the receiving condition of Japan with using KGKDSR.

Please enjoy.
I expect the progress of KGKSDR.

hidehiko ja9mat

67. Re: [kgksdr] Sound File of BBC both .wav and IQ

Yahoo group: kgksdr
Date: 2006-01-02 11:21:30 UTC
From: Duncan Munro
Topic: 66 Message: 67

qrper723 wrote:
> Hi,all.
>
> I've updated the sound files as below;
>
> http://www.geocities.jp/qrper72/srv5spurious.html
>
> BBC of High Band is not so strong today. hi.
> I'm receiving BBC whole of the day and KGKSDR is stable now.
>
> IQ file is .zip so you need to extract.
> You can feel the receiving condition of Japan with using KGKDSR.

Hi Hidehiko, looks good! I noticed from the website that you have a big image of the BBC signal, just been looking at the software here and I managed to break some of the calibration stuff when introducing the polyphase FFT.

Unfortunately, the Softrock40 that I have is so damn close to perfect on amplitude and phase, the images are very difficult to detect anyway. For testing, I have had to synthesise out of balance IQ signals which means that an error went out with build 21 :-(

This has been fixed here and will be further tested over the next few hours before I release it, but I have uploaded some pictures to the files area that might interest you.
http://groups.yahoo.com/group/kgksdr/files/Screenshots/

ja9mat-1.gif shows the signal with image because the calibration is off.

ja9mat-2.gif shows the same but with calibration on. It takes about 5 minutes to extract calibration info from the recorded file, but it will fix the image correctly. Build 21 is broken in this respect, but as I say the fixes will be released later today.

ja9mat-3.gif has the solid fill and the display filtering turned on. This really is a good way to identify spurs on the signal and they can be clearly seen from the picture.

ja9mat-cal1.gif shows the amplitude correction that the software worked out, and ja9mat-cal2.gif shows the phase correction.

ja9mat-test.gif was created by changing the software to do a massive time constant on the display. This makes the spectrum display unusable for normal use as it takes around 1-2 minutes for the display to stabilise, but shows up spurs against the noise.

And finally...

An additional filter for AM has just been added at 10.5kHz to fit the bandwidth of the BBC transmission ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

68. Lockup Build-21 - when Line input set to nil

Yahoo group: kgksdr
Date: 2006-01-02 13:00:54 UTC
From: n3hkn
Topic: 68 Message: 68

When I set the Line Input slider on my Turtle Beach to nil/zero/bottom of slider travel, the program always locks up... Restart is ok.

Dick N3HKN

69. Re: Lockup Build-21 - when Line input set to nil

Yahoo group: kgksdr
Date: 2006-01-02 13:04:47 UTC
From: Duncan Munro
Topic: 68 Message: 69

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
> When I set the Line Input slider on my Turtle Beach to nil/zero/bottom
> of slider travel, the program always locks up... Restart is ok.

Hi Dick, thanks for the info. I'm going to hazard a guess that
there's a square root in there that doesn't like zero (I thought I had
trapped them all). Will report back soon...

73,

Duncan M0KGK

70. Re: [kgksdr] Re: Lockup Build-21 - when Line input set to nil

Yahoo group: kgksdr
Date: 2006-01-02 13:10:32 UTC
From: Duncan Munro
Topic: 68 Message: 70

Duncan Munro wrote:
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
>>When I set the Line Input slider on my Turtle Beach to nil/zero/bottom
>>of slider travel, the program always locks up... Restart is ok.
>
>
> Hi Dick, thanks for the info. I'm going to hazard a guess that
> there's a square root in there that doesn't like zero (I thought I had
> trapped them all). Will report back soon...

It wasn't a square root at all, it was a fault in the filtered spectrum
display :-(

Now fixed and will go out in the next build a little later on.

--
Duncan Munro
http://www.m0kgk.co.uk/

71. KGKSDR Build 22 released

Yahoo group: kgksdr
Date: 2006-01-02 14:42:27 UTC
From: Duncan Munro
Topic: 71 Message: 71

In response to a few issues with build 21, build 22 has just been uploaded to the website at http://www.m0kgk.co.uk/sdr/

Key changes are:

FIXED: Problem with calibration when playing IQ files. Changing the receiver options could switch cal map from the wave file one to the normal receiver one making the IQ file cal inoperative and messing up the receiver map with unwanted data from the IQ file.

FIXED: Problem with filtered spectrum display which would cause the software to crash if a pure zero signal was used.

ADDED: AM filter for 10.5kHz.

ADDED: Variable rate filtering for the spectrum display, can be amended with Options -> Receiver -> Display.

73,

Duncan M0KGK

72. Re: [kgksdr] KGKSDR Build 22 released

Yahoo group: kgksdr
Date: 2006-01-02 16:46:02 UTC
From: Michael Blake
Topic: 71 Message: 72

Duncan,

Again thanks for the hard work. This is really fun from my end but I just discovered a green square to the right of the "ANL" check box and just to the left of the narrowest filter selection box.

What is the function of this "indicator"?

Also, I wonder if it is reasonible to add an automatic notch filter to the software?

This whole SoftRock thing is great fun!!

73 - Mike - K9JRI

Duncan Munro <m0kgk@...> wrote:
In response to a few issues with build 21, build 22 has just been uploaded to the website at http://www.m0kgk.co.uk/sdr/

Key changes are:

FIXED: Problem with calibration when playing IQ files. Changing the receiver options could switch cal map from the wave file one to the normal receiver one making the IQ file cal inoperative and messing up the receiver map with unwanted data from the IQ file.

FIXED: Problem with filtered spectrum display which would cause the software to crash if a pure zero signal was used.

ADDED: AM filter for 10.5kHz.

ADDED: Variable rate filtering for the spectrum display, can be amended with Options -> Receiver -> Display.

73,

Duncan M0KGK

Yahoo! Groups Links

73 - Mike - K9JRI

73. Re: [kgksdr] KGKSDR Build 22 released

Yahoo group: kgksdr
Date: 2006-01-02 16:59:31 UTC
From: Duncan Munro
Topic: 71 Message: 73

Michael Blake wrote:
> Duncan,
>
> Again thanks for the hard work. This is really fun from my end but I
> just discovered a green square to the right of the "ANL" check box and
> just to the left of the narrowest filter selection box.
>
> What is the function of this "indicator"?

Hi Mike, this indicates if the Automatic Noise Limiter has been tripped
so you can tell that it's removing noise pulses. If you go to:

Help -> Contents -> DSP functions

There's a bit of a description on there.

> Also, I wonder if it is reasonible to add an automatic notch filter to
> the software?

Yes, this will be happening (but probably not for the next week or so).
It's on the development list in the yahoo group databases at
http://groups.yahoo.com/group/kgksdr/database

I've called it a 'whistle filter' on there, but automatic notch filter
or ANF is likely to be the name when it ends up in the software.

--
Duncan Munro
http://www.m0kgk.co.uk/

74. Re: KGKSDR Build 22 released-nil in lockup

Yahoo group: kgksdr
Date: 2006-01-02 17:51:25 UTC
From: n3hkn
Topic: 71 Message: 74

Taking the Line In to zero still causes a lockup of the program...
Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Michael Blake wrote:
> > Duncan,
> >
> > Again thanks for the hard work. This is really fun from my end but I
> > just discovered a green square to the right of the "ANL" check box
and
> > just to the left of the narrowest filter selection box.
> >
> > What is the function of this "indicator"?
>
> Hi Mike, this indicates if the Automatic Noise Limiter has been tripped
> so you can tell that it's removing noise pulses. If you go to:
>
> Help -> Contents -> DSP functions
>
> There's a bit of a description on there.
>
> > Also, I wonder if it is reasonible to add an automatic notch
filter to
> > the software?
>
> Yes, this will be happening (but probably not for the next week or so).
> It's on the development list in the yahoo group databases at
> http://groups.yahoo.com/group/kgksdr/database
>
> I've called it a 'whistle filter' on there, but automatic notch filter
> or ANF is likely to be the name when it ends up in the software.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

75. Re: [kgksdr] KGKSDR Build 22 released

Yahoo group: kgksdr
Date: 2006-01-02 17:59:56 UTC
From: Michael Blake
Topic: 71 Message: 75

Duncan,

I ALMOST looked in the help file ;-(A thousand pardons for wasting your time.

Great news on the ANF function. I seldon go to the group page so I was not up to speed on the "wish" list. Thanks again Duncan.

73 - Mike - K9JRI

Duncan Munro <m0kgk@...> wrote:
Michael Blake wrote:
> Duncan,
>
> Again thanks for the hard work. This is really fun from my end but I
> just discovered a green square to the right of the "ANL" check box and
> just to the left of the narrowest filter selection box.
>
> What is the function of this "indicator"?

Hi Mike, this indicates if the Automatic Noise Limiter has been tripped
so you can tell that it's removing noise pulses. If you go to:

Help -> Contents -> DSP functions

There's a bit of a description on there.

> Also, I wonder if it is reasonible to add an automatic notch filter to
> the software?

Yes, this will be happening (but probably not for the next week or so).
It's on the development list in the yahoo group databases at
http://groups.yahoo.com/group/kgksdr/database

I've called it a 'whistle filter' on there, but automatic notch filter
or ANF is likely to be the name when it ends up in the software.

--
Duncan Munro
http://www.m0kgk.co.uk/

Yahoo! Groups Links

73 - Mike - K9JRI

76. Re: [kgksdr] Re: KGKSDR Build 22 released-nil in lockup

Yahoo group: kgksdr
Date: 2006-01-02 19:16:37 UTC
From: Duncan Munro
Topic: 71 Message: 76

n3hkn wrote:
> Taking the Line In to zero still causes a lockup of the program...
> Regards,

Hi Dick, is this with ANR switched on? (I think I've found another problem with zero signals in this area).

--
Duncan Munro
http://www.m0kgk.co.uk/

77. Re: KGKSDR Build 22 released-nil in lockup

Yahoo group: kgksdr
Date: 2006-01-02 20:41:28 UTC
From: n3hkn
Topic: 71 Message: 77

Yes, only with ANR on.
Dick

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > Taking the Line In to zero still causes a lockup of the program...
> > Regards,
>
> Hi Dick, is this with ANR switched on? (I think I've found another
> problem with zero signals in this area).
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

78. Automatic Noise Reduction

Yahoo group: kgksdr
Date: 2006-01-02 21:30:54 UTC
From: Duncan Munro
Topic: 78 Message: 78

This is under development, but is coming together nicely. I've put some sample wave files in the files area to demonstrate the different between having ANR off and on.

http://groups.yahoo.com/group/kgksdr/files/Wave%20files/

73,

Duncan M0KGK

79. kgksdr.exe remains

Yahoo group: kgksdr
Date: 2006-01-02 22:43:20 UTC
From: qrper723
Topic: 79 Message: 79

Duncan,

Thanks for new build-22 released.

I foud the small thing as follows;

1)stop the KGKSDR program
2)run the other SDR software (ex;Rocky1.4)
3)"Sound Card Error" occures
4)"CTRL+Alt+Del" and see the kgksdr.exe stil remains

I think that KGKSDR sometimes catched the soundcard.

This phenomenon does not always occur but often in ending
process seems to be not smoothly.

I shutdown the kgksdr.exe and it's ok to start the Rocky.

hidehiko ja9mat

80. Re: [kgksdr] kgksdr.exe remains

Yahoo group: kgksdr
Date: 2006-01-03 00:06:34 UTC
From: Duncan Munro
Topic: 79 Message: 80

qrper723 wrote:
> Duncan,
>
> Thanks for new build-22 released.
>
> I foud the small thing as follows;
>
> 1)stop the KGKSDR program
> 2)run the other SDR software (ex;Rocky1.4)
> 3)"Sound Card Error" occures
> 4)"CTRL+Alt+Del" and see the kgksdr.exe stil remains
>
> I think that KGKSDR sometimes catched the soundcard.
>
> This phenomenon does not always occur but often in ending
> process seems to be not smoothly.

Hmmmm.... I'll have a look at the closedown procedure to make sure everything is coming apart in the right order. It sounds like some part of the system is still active on closedown and would cause the problems you mention.

It's gone on the dev list as a priority A.

--
Duncan Munro
http://www.m0kgk.co.uk/

81. Build 23 - Automatic Notch Filter

Yahoo group: kgksdr
Date: 2006-01-03 00:11:28 UTC
From: Duncan Munro
Topic: 81 Message: 81

Automatic Notch Filter (ANF) is here! http://www.m0kgk.co.uk/sdr/

The default values should work fairly well, but any feedback is appreciated.

Here's the update from changes.txt:

FIXED: File|Recording options was going to the wrong tab on the options screen (Display instead of Recording).

FIXED: Problem in ANR function with zero level signals.

ADDED: ANF (Automatic Notch Filter) function.

73,

Duncan M0KGK

82. Re: [kgksdr] Build 23 - Automatic Notch Filter

Yahoo group: kgksdr
Date: 2006-01-03 00:23:10 UTC
From: Michael Blake
Topic: 81 Message: 82

Duncan,

It works perfectly to remove the continuous hetrodyne from my Rock osc chain right on the 7,055 SSB net frequency.

You are very good - thanks again.

73 - Mike - K9JRI

Duncan Munro <m0kgk@...> wrote:
Automatic Notch Filter (ANF) is here! http://www.m0kgk.co.uk/sdr/

The default values should work fairly well, but any feedback is appreciated.

Here's the update from changes.txt:

FIXED: File|Recording options was going to the wrong tab on the options screen (Display instead of Recording).

FIXED: Problem in ANR function with zero level signals.

ADDED: ANF (Automatic Notch Filter) function.

73,

Duncan M0KGK

Yahoo! Groups Links

73 - Mike - K9JRI

83. Invalid Floating Point Error

Yahoo group: kgksdr
Date: 2006-01-04 16:23:22 UTC
From: n3hkn
Topic: 83 Message: 83

If I Stop and then Start the program an Invalid Floating Point error occurs. Have to delete the folder in Applications to get a load and start.

Built my V.5 for 20M unit. Only one channel seems to be coming from the BPF board but I am receiving signals through the other channel ok.

Regards,
Dick N3HKN

84. Re: [kgksdr] Invalid Floating Point Error

Yahoo group: kgksdr
Date: 2006-01-04 16:41:11 UTC
From: Duncan Munro
Topic: 83 Message: 84

> If I Stop and then Start the program an Invalid Floating Point error
> occurs. Have to delete the folder in Applications to get a load and
start.

Hi Dick, sounds like some more work required on the cal map side.

> Built my V.5 for 20M unit. Only one channel seems to be coming from
> the BPF board but I am receiving signals through the other channel ok.

Yup, just seen your post on the Softrock grp about one channel
missing. It might be this that's messing up the cal and causing it to
try and create a strange polynomial.

I'll have a look at this one tonight, I'm guessing that the lack of a
complete input channel is getting it to try and correct the
uncorrectable. It should deal with this situation more gracefully and
refuse to collect cal points or apply calibration correction under
these circumstances.

--
Duncan Munro

85. Re: Invalid Floating Point Error

Yahoo group: kgksdr
Date: 2006-01-04 18:03:00 UTC
From: n3hkn
Topic: 83 Message: 85

Found the bad solder point. Fixed and ok now. Start/Stop works when
both channels present. Simulated one missing channel with the Line-in
slider but did not cause problem. ???

So now "playing around".

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>
>
> > If I Stop and then Start the program an Invalid Floating Point error
> > occurs. Have to delete the folder in Applications to get a load and
> start.
>
> Hi Dick, sounds like some more work required on the cal map side.
>
> > Built my V.5 for 20M unit. Only one channel seems to be coming from
> > the BPF board but I am receiving signals through the other channel ok.
>
> Yup, just seen your post on the Softrock grp about one channel
> missing. It might be this that's messing up the cal and causing it to
> try and create a strange polynomial.
>
> I'll have a look at this one tonight, I'm guessing that the lack of a
> complete input channel is getting it to try and correct the
> uncorrectable. It should deal with this situation more gracefully and
> refuse to collect cal points or apply calibration correction under
> these circumstances.
>
> --
> Duncan Munro
>

86. Re: [kgksdr] Re: Invalid Floating Point Error

Yahoo group: kgksdr
Date: 2006-01-04 19:37:46 UTC
From: Duncan Munro
Topic: 83 Message: 86

n3hkn wrote:
> Found the bad solder point. Fixed and ok now. Start/Stop works when
> both channels present. Simulated one missing channel with the Line-in
> slider but did not cause problem. ???

Hi Dick, first of all good news the SR is roaring along. Mine had a tiny tolder spike between two of the legs on the FST3126 and it gave me similar problems.

The map problem may come up at some time in the future if you continue the simulation with the missing channel for any time. I guess it's Russian Roulette on that front...

I'm going to do a bit of work on it here and find out what is giving the maps such a headache. Back later...

--
Duncan Munro
http://www.m0kgk.co.uk/

87. Build 24 - Invalid floating point error

Yahoo group: kgksdr
Date: 2006-01-04 20:56:57 UTC
From: Duncan Munro
Topic: 87 Message: 87

The problems with incorrect or missing I/Q inputs have now been traced. As suspected, the software was trying to 'beef up' a signal that wasn't even there which caused difficulties.

Build 24 now available addresses this issue, and also addresses the issue of calibration maps that already contain errors. It should no longer be necessary to delete files from the application data folder, as KGKSDR from build 24 will integrity check the cal files in some detail and take action if the map contains data which might upset the software.

Download is available from http://www.m0kgk.co.uk/sdr/

Another fault has been identified and rectified where resources might not be released on closedown. This relates to the fault discovered by Hidehiko where KGKSDR was sometimes looking like it closed down but was still available in the task manager.

73,

Duncan M0KGK

88. Build 23 Frequency Display

Yahoo group: kgksdr
Date: 2006-01-04 20:58:14 UTC
From: n3hkn
Topic: 88 Message: 88

The displayed frequency is about 7khz higher than actual when tuned to 14070 PSK freq. My center frequency is 14060(set in program).

Another thing is that close to the center frequency is about 2 S-units of noise/signal about 1khz wide. I have seen it on your program and Rocky. Comes from the sound card - I think. Same with AC07 or Turtle Beach. Just wanted to know if this is normal or something odd in my systems (2 differnt PCs)??

I have, up until now, been using the program to filter the audio on my Kenwood TS-520S. So, I am not absolutely sure what I should see in I&Q mode. Balance seems good but I can create an image when generating a strong signal from my "conventions;" rig. 20M has been spotty so have not seen any overpowering signals hitting my little 3ft square copper pipe loop.

Dick N3HKN

89. Re: [kgksdr] Build 23 Frequency Display

Yahoo group: kgksdr
Date: 2006-01-04 21:37:50 UTC
From: Duncan Munro
Topic: 88 Message: 89

Hi Dick,

n3hkn wrote:
> The displayed frequency is about 7khz higher than actual when tuned to
> 14070 PSK freq. My center frequency is 14060(set in program).

Just thinking aloud here, and humble apologies if you have checked already.

Is the c/f 14060 by checking, or is it the number on the crystal? The reason I mention this is that my own 40m SR is about 2-3 kHz down and I believe this has been reported by others. I'm guessing that's because the crystal has a big parallel load on it which will pull the freq down, but I may be wrong on that one.

An easy way to check is to sit a receiver or transceiver near the SR that you know has good calibration on it. Spin the dial between 14050 and 14070, the sound of the crystal on the Softrock should be audible.

Again, apologies if you have tried this already but it's the only rational explanation I can think of for a difference of that amount between what it says and what it should be.

> Another thing is that close to the center frequency is about 2
> S-units of noise/signal about 1khz wide. I have seen it on your
> program and Rocky. Comes from the sound card - I think. Same with AC07
> or Turtle Beach. Just wanted to know if this is normal or something
> odd in my systems (2 differnt PCs)??

Likely to be one or more of the following:

* A DC offset on the card (this would give a thin spike).

* More likely: 60Hz hum caused by a ground loop.

* 60Hz and harmonics induced in the wiring from lighting, devices consuming power etc.

> I have, up until now, been using the program to filter the audio on my
> Kenwood TS-520S. So, I am not absolutely sure what I should see in I&Q
> mode. Balance seems good but I can create an image when generating a
> strong signal from my "conventions;" rig. 20M has been spotty so have
> not seen any overpowering signals hitting my little 3ft square copper
> pipe loop.

OK, at first you will see an image when you key a TX near the SDR. The application will "learn" as it goes along, if you open up Options|Calibration... it will show you the map being built up where it learns what the IQ imbalance is. This window is modal which means you

can't work anything else while it's open.

The image is more prevalent on the SR5 which uses a phase shift network to generate the quadrature signal, and initially you will get big images.

Turn on Options -> Receiver -> General -> Collect cal data, and if you have plenty of CPU left, turn up the Collection rate option to make it learn quicker.

Turn off the Apply calibration option for now to give more CPU while it learns. Go back to your Options|Calibration screen and watch the data points mount up, and the correction line will eventually snap into place.

It goes through the following 4 phases depending on how far you are through the cycle:

(1) Applies 1:1 amplitude correction, and assumes the phases are 90 degrees apart. It does this when it doesn't have enough data to even guess what the amplitude and phase corrections should be, i.e. a "safe bet". With the SR40 this will result in images, the SR5 will generate larger images.

(2) Once it has enough points to get a rough idea of phase and amplitude, it will make a linear correction to phase and amplitude. This is a simple correction and gets you in the rough ball park, but will apply the same amount of amplitude or phase correction across the band. It's better than (1) but still needs improving.

(3) Once points have been gathered in both halves of the image, it will generate a first order polynomial. In English, this is a straight line but can be tipped up or down at one end. It's better than (2) and gets fairly close.

(4) If you divided the frequency span into four quadrants, and it has gathered sensible data from all four, it will generate a second order polynomial which will curve to fit the data. Again, better than (3).

(5) Is the icing on the cake, the third order polynomial once all 8 "8ths'" of the spectrum have good data.

If you go back and switch the "Apply calibration" on, the images should be substantially reduced.

Hope the explanation is helpful.

--
Duncan Munro
http://www.m0kgk.co.uk/

90. Re: Build 23 Frequency Display

Yahoo group: kgksdr
Date: 2006-01-05 03:47:42 UTC
From: n3hkn
Topic: 88 Message: 90

The actual 14060 xtal freq is 14550. Not much of a difference. I am not sure that I do not have something invalid set here so I could be giving bogus data.

The images are quite easy to create when using my Kenwood at only 1/2 W or less into a piece of wire. I am beginning to suspect that RF is finding its way into the V5.0 receiver setting near the Kenwood with no box/shielding. So forget that one.

The "stuff" in the center of the display (center freq) has a strong 60hz component.

I hope my 40M BPF arrives soon since 20M closes quickly at sundown.

A lo-gain "heavy-duty" RF amp would help.

Stack a switching module atop the QSD and some BPFs on top of that and you have a nice multi-band receiver. A matching transmitter would be VERY nice. At 68 I cannot wait too long for these goodies since I was very lucky with the SMT items producing only one soldering error. I used a Dremel tool to create a point on a conventional conical tip for soldering using 0,015 silver solder. Was not too bad. Holding the darn things was the greatest problem. Being so very light too much pressure to traverse the smallest rough spot cause them to jump significant distances. I was on my knees once Searching/praying to find the FST chip. I found that a toothpick moistened with saliva was my tool of choice for positioning and holding components.

I need to dig out my AB switch to compare the SDR to my ancient Kenwood 520.

Don't know if I mentioned it but I did have the Flex-Radio SDR-1000 for awhile. Actually made a 1 watt contact on 40M with it. However, the costs of the ATU and 100W amplifier caused me to sell it. It did work. Had the Griffin knob as well. I just found it awkward to use. This program's approach, using the "slide rule" dial, is better. I like the ability to either slide or point and click. The ability to directly enter a frequency would be a nice update.

So no serious issues with the program or the hardware at this point except for the freq readout which may be something here.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Hi Dick,

>
> n3hkn wrote:
> > The displayed frequency is about 7khz higher than actual when tuned to
> > 14070 PSK freq. My center frequency is 14060(set in program).
>
> Just thinking aloud here, and humble apologies if you have checked
already.
>
> Is the c/f 14060 by checking, or is it the number on the crystal? The
> reason I mention this is that my own 40m SR is about 2-3 kHz down and I
> believe this has been reported by others. I'm guessing that's because
> the crystal has a big parallel load on it which will pull the freq
down,
> but I may be wrong on that one.
>
> An easy way to check is to sit a receiver or transceiver near the SR
> that you know has good calibration on it. Spin the dial between 14050
> and 14070, the sound of the crystal on the Softrock should be audible.
>
> Again, apologies if you have tried this already but it's the only
> rational explanation I can think of for a difference of that amount
> between what it says and what it should be.
>
> > Another thing is that close to the center frequency is about 2
> > S-units of noise/signal about 1khz wide. I have seen it on your
> > program and Rocky. Comes from the sound card - I think. Same with AC07
> > or Turtle Beach. Just wanted to know if this is normal or something
> > odd in my systems (2 differnt PCs)??
>
> Likely to be one or more of the following:
>
> * A DC offset on the card (this would give a thin spike).
>
> * More likely: 60Hz hum caused by a ground loop.
>
> * 60Hz and harmonics induced in the wiring from lighting, devices
> consuming power etc.
>
> > I have, up until now, been using the program to filter the audio on my
> > Kenwood TS-520S. So, I am not absolutely sure what I should see in I&Q
> > mode. Balance seems good but I can create an image when generating a
> > strong signal from my "conventions;" rig. 20M has been spotty so have
> > not seen any overpowering signals hitting my little 3ft square copper
> > pipe loop.
>
> OK, at first you will see an image when you key a TX near the SDR. The
> application will "learn" as it goes along, if you open up
> Options|Calibration... it will show you the map being built up where it
> learns what the IQ imbalance is. This window is modal which means you
> can't work anything else while it's open.

>
> The image is more prevalent on the SR5 which uses a phase shift network
> to generate the quadrature signal, and initially you will get big
images.
>
> Turn on Options -> Receiver -> General -> Collect cal data, and if you
> have plenty of CPU left, turn up the Collection rate option to make it
> learn quicker.
>
> Turn off the Apply calibration option for now to give more CPU while it
> learns. Go back to your Options|Calibration screen and watch the data
> points mount up, and the correction line will eventually snap into
place.
>
> It goes through the following 4 phases depending on how far you are
> through the cycle:
>
> (1) Applies 1:1 amplitude correction, and assumes the phases are 90
> degrees apart. It does this when it doesn't have enough data to even
> guess what the amplitude and phase corrections should be, i.e. a "safe
> bet". With the SR40 this will result in images, the SR5 will generate
> larger images.
>
> (2) Once it has enough points to get a rough idea of phase and
> amplitude, it will make a linear correction to phase and amplitude.
> This is a simple correction and gets you in the rough ball park, but
> will apply the same amount of amplitude or phase correction across the
> band. It's better than (1) but still needs improving.
>
> (3) Once points have been gathered in both halves of the image, it will
> generate a first order polynomial. In English, this is a straight line
> but can be tipped up or down at one end. It's better than (2) and gets
> fairly close.
>
> (4) If you divided the frequency span into four quadrants, and it has
> gathered sensible data from all four, it will generate a second order
> polynomial which will curve to fit the data. Again, better than (3).
>
> (5) Is the icing on the cake, the third order polynomial once all 8
> "8ths'" of the spectrum have good data.
>
> If you go back and switch the "Apply calibration" on, the images should
> be substantially reduced.
>
> Hope the explanation is helpful.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

91. Alleged Wrong Freq Display

Yahoo group: kgksdr
Date: 2006-01-05 13:19:06 UTC
From: n3hkn
Topic: 91 Message: 91

As I suspected I did something wrong. One of those cases that staring at at error makes it look ok. I had mistyped the center frequency for the program. By entering the true frequency of the V5.0 20M xtal (14055 in my case) it give me a reasonably close freq display. Since I am measuring the frequency of the xtal with my Kenwood TS-520S analog dial true accuracy is elusive.

Dick N3HKN

92. Re: [kgksdr] Alleged Wrong Freq Display

Yahoo group: kgksdr
Date: 2006-01-05 16:00:12 UTC
From: Stan Rife
Topic: 91 Message: 92

Dick, if you have a known signal source (I use an XG-1) that you can generate a signal within the passband of the SR, you can tweak the frequency that you entered, one way or the other, to get the KGKSDR display calibrated. Someone more than likely already told you this, but I wanted to be sure you knew.

Stan
W5EWA

n3hkn <n3hkn@...> wrote:
As I suspected I did something wrong. One of those cases that staring at at error makes it look ok. I had mistyped the center frequency for the program. By entering the true frequency of the V5.0 20M xtal (14055 in my case) it give me a reasonably close freq display. Since I am measuring the frequency of the xtal with my Kenwood TS-520S analog dial true accuracy is elusive.

Dick N3HKN

YAHOO! GROUPS LINKS

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To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com

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---

93. Re: [kgksdr] Alleged Wrong Freq Display

Yahoo group: kgksdr
Date: 2006-01-05 16:00:41 UTC
From: Milt Cram
Topic: 91 Message: 93

n3hkn wrote:

> As I suspected I did something wrong. One of those cases that staring
> at at error makes it look ok. I had mistyped the center frequency for
> the program. By entering the true frequency of the V5.0 20M xtal
> (14055 in my case) it give me a reasonably close freq display. Since I
> am measuring the frequency of the xtal with my Kenwood TS-520S analog
> dial true accuracy is elusive.
>
> Dick N3HKN
>
>
Dick,

I measured 14055 on my v5 SR with the 20m BPF. I used the Norcal FCC-1
frequency counter that I had calibrated against WWV. The frequencies
that are displayed on Rocky and KGKSDR are very close to what I observe
on my TS480 and K2.

Milt W8NUE

94. Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 11:36:31 UTC
From: n3hkn
Topic: 94 Message: 94

Listening to a no-signal section of the band. The noise level shows 3 on the S-Meter with the ANR on. If I uncheck it (off) the indication on the meter goes to a 5. However, there is no perceptible change in either the heard audio level or the displayed level. Is this a case of the AGC trying to maintain the level on the display and what is heard? I did the test with AGC in all 4 settings with the same results. If I had a personal preference I would like to see the Manual AGC always reflect the action of the operator- display and aurally. I believe that there was a similar situation in the SDR-1000 software at an early stage.

I have been comparing the "heard" signal levels with my Kenwood TS-520S. While not scientific, my guess is that the SDR is slightly less sensitive. Another oddity is that some local interference signals have a much higher level on the Kenwood vs. the SDR. This despite the SDR hardware setting right next to the Kenwood. The only real difference is that the SDR is powered by a 20 amp supply set at 11.8 volts with the SDR as the only load so its filtering is at a maximum. Should never have sold my XG-1....
Waiting for my lo-band BPF to get some "big signal" activity.

Regards,
Dick N3HKN

PS: Frequency calibration/display is now quite accurate once I realized that the BPF boards osc freq was so far off.

95. Re: [kgksdr] Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 11:57:15 UTC
From: N Munro
Topic: 94 Message: 95

n3hkn wrote:

> PS: Frequency calibration/display is now quite accurate once I
> realized that the BPF boards osc freq was so far off.
>
Dick
Both my 40m and 20m BPF/Osc boards have come out almost exactly 5kHz
lower than the nominal Crystal frequencies. I think most others are
getting similar results.
73

Norman
GM4KGK

96. Re: [kgksdr] Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 12:06:58 UTC
From: Duncan Munro
Topic: 94 Message: 96

> Is this a case of
> the AGC trying to maintain the level on the display and what is heard?

That's exactly it. Point taken about the manual AGC, it works like
some TX's that 'flood' the AGC line when the RF gain is turned down.
i.e. the S meter goes up as the thing goes quieter.

It may be better to provide it as an option so users have the choice of
working it as it is now, or a "manual really means manual" setting.

> I have been comparing the "heard" signal levels with my Kenwood
> TS-520S. While not scientific, my guess is that the SDR is slightly
> less sensitive. Another oddity is that some local interference signals
> have a much higher level on the Kenwood vs. the SDR.

That seems to match quite a few views I've seen so far. The softrock
is an extremely clean receiver, I've done back to back tests to prove
it, so I know it's not just my ears :-)

> PS: Frequency calibration/display is now quite accurate once I
> realized that the BPF boards osc freq was so far off.

I thought it would be something simple like that, and I'll probably put
something in the FAQ / help file about it because I believe the issue
of crystal being off freq will affect quite a number of people.

--
Duncan Munro
M0KGK

97. Questions About Calibration??

Yahoo group: kgksdr
Date: 2006-01-06 13:47:28 UTC
From: n3hkn
Topic: 97 Message: 97

I have about 25,000 accumulated points right now with a straight line amplitude and phase display (about 1 hours operation at highest settings - CPU not an issue). How should I interpret these displays? Does the straight line show that automatic adjustments (phase & amplitude) are occurring in a linear manner? Is the goal, for phase, to have the error = zero and the frequency equal zero at some point on the line? Amplitude leaves me confused... Since I have never programmed any DSP I am sure that the explanation is clearer than my "amateur" interpretations....

Another question is - how are these used over a longer term? I understand that values are in files under My Documents but are subsequent operations of the software always seeking to refine the settings? By doing a RESET (right click on display) am I now injecting temporarily invalid data (until the samples become reasonable) into the data set in the files?

Finally, having no instrumentation (scope) I cannot see any obvious improvements over time. However, since there appears to be an effort to "dynamically" adjust the program to match the hardware some improvements are probably taking place in a subtle fashion.

Now the good part - I was examining the large adverts of Yaesu for their latest gold-plated rig. They spend considerable space describing their bandwidth and IF shift produced by the dual 32 bit processors. With your program I can do that and more at "slightly" less cost. Add in the Softrock radio ($28) and it almost makes the claims by Yaesu silly. Yes we need a transmitter and bandswitching but HOPEFULLY that will evolve. However, the advert does raise a question - given that the program performs the same functions as the Yaesu DSP at the IF level, does it now, or will it in the future, provide that same, or better, quality when performing functions such as bandpass shifting and bandpass width. Seems to be pretty good to me right now but would like a "second opinion".

THANKS,
Dick N3HKN

98. Re: Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 14:05:06 UTC
From: n3hkn
Topic: 94 Message: 98

I would vote for some type of pure manual control that allows the operator to manipulate the various functions and see the results unmodified by AGC. As an example I would like to be able to see the difference in the noise floor when I switch antennas. My 31 ft GAP vertical produces a considerable differenc in the base noise level when compared to the little 1 meter square loop. The actual signal strength is the same. Seeing this on your full spectrum display would be interesting , looking for equal noise levels across a wide spectrum.

As an aside, tuning and signal selection is excellent in your implementation I have tried others, including the Flex-Radio software, and find your approach more to my liking.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>
> > Is this a case of
> > the AGC trying to maintain the level on the display and what is heard?
>
> That's exactly it. Point taken about the manual AGC, it works like
> some TX's that 'flood' the AGC line when the RF gain is turned down.
> i.e. the S meter goes up as the thing goes quieter.
>
> It may be better to provide it as an option so users have the choice of
> working it as it is now, or a "manual really means manual" setting.
>
> > I have been comparing the "heard" signal levels with my Kenwood
> > TS-520S. While not scientific, my guess is that the SDR is slightly
> > less sensitive. Another oddity is that some local interference signals
> > have a much higher level on the Kenwood vs. the SDR.
>
> That seems to match quite a few views I've seen so far. The softrock
> is an extremely clean receiver, I've done back to back tests to prove
> it, so I know it's not just my ears :-)
>
> > PS: Frequency calibration/display is now quite accurate once I
> > realized that the BPF boards osc freq was so far off.
>
> I thought it would be something simple like that, and I'll probably put
> something in the FAQ / help file about it because I believe the issue
> of crystal being off freq will affect quite a number of people.
>
> --
> Duncan Munro

> M0KGK
>

99. Re: [kgksdr] Questions About Calibration??

Yahoo group: kgksdr
Date: 2006-01-06 14:49:18 UTC
From: Duncan Munro
Topic: 97 Message: 99

> I have about 25,000 accumulated points right now with a straight line
> amplitude and phase display (about 1 hours operation at highest
> settings - CPU not an issue). How should I interpret these displays?
> Does the straight line show that automatic adjustments (phase &
> amplitude) are occurring in a linear manner?

It sounds like linear, if you check the bottom of the phase display it will show the correction polynomial. If the polynomial at the bottom of the display has two numbers filled out, and the x^2 and x^3 are zero, then that would be a straight line. More data will allow it to risk the higher order corrections.

> Is the goal, for phase,
> to have the error = zero and the frequency equal zero at some point on
> the line? Amplitude leaves me confused... Since I have never
> programmed any DSP I am sure that the explanation is clearer than my
> "amateur" interpretations....

The dots should be pretty close to the line, clustered round it but are unlikely to be right on top for a variety of practical reasons. You might even get some rogue points that are way off base, but these are nothing to worry about.

> Another question is - how are these used over a longer term? I
> understand that values are in files under My Documents but are
> subsequent operations of the software always seeking to refine the
> settings?

That's absolutely correct - the software will improve the calibration with every bit of use it gets.

> By doing a RESET (right click on display) am I now injecting
> temporarily invalid data (until the samples become reasonable) into
> the data set in the files?

No not invalid data, it simply wipes the data out altogether and the calibration must start again. Normally you shouldn't have to do a reset.

> [...] However, the advert does raise a question - given that
> the program performs the same functions as the Yaesu DSP at the IF
> level, does it now, or will it in the future, provide that same, or
> better, quality when performing functions such as bandpass shifting
> and bandpass width. Seems to be pretty good to me right now but would
> like a "second opinion".

The quality with the bandpass shifted (or widened/narrowed) should be the same as it is now. You can experiment with this by picking a custom filter option and varying the bandwidth and centre frequency. This is exactly the same as bandwidth and IF shift respectively, and the operation is fairly smooth.

--
Duncan Munro
M0KGK

100. Re: [kgksdr] Re: Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 14:53:01 UTC
From: Duncan Munro
Topic: 94 Message: 100

```
>
> I would vote for some type of pure manual control that allows the
> operator to manipulate the various functions and see the results
> unmodified by AGC. As an example I would like to be able to see the
> difference in the noise floor when I switch antennas. My 31 ft GAP
> vertical produces a considerable differenc in the base noise level
> when compared to the little 1 meter square loop. The actual signal
> strength is the same. Seeing this on your full spectrum display would
> be interesting , looking for equal noise levels across a wide
spectrum.
```

Hi Dick, you should be able to see this info on the spectrum display as it is not affected by AGC or anything else (except ANL). Simply switch antennas and the noise floor should change. I would recommend using the polyphase FFT, solid fill, display filtering and set the filtering to 'slow' to give maximum visibility of the noise floor.

--
Duncan Munro

101. Re: Audio AGC - Is It Always On?

Yahoo group: kgksdr
Date: 2006-01-06 15:58:17 UTC
From: n3hkn
Topic: 94 Message: 101

Yep, you are correct. I was looking at the display in about 1/3 of the screen height - 1200x1024 19 inch. Setting the program to full screen makes the noise level change much more noticeable. Glad to know that the display is as close as we can get to seeing the actual raw data before any extensive processing is envoked.

It just gets better!!

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>
>
> >
> > I would vote for some type of pure manual control that allows the
> > operator to manipulate the various functions and see the results
> > unmodified by AGC. As an example I would like to be able to see the
> > difference in the noise floor when I switch antennas. My 31 ft GAP
> > vertical produces a considerable differenc in the base noise level
> > when compared to the little 1 meter square loop. The actual signal
> > strength is the same. Seeing this on your full spectrum display would
> > be interesting , looking for equal noise levels across a wide
> spectrum.
>
> Hi Dick, you should be able to see this info on the spectrum display as
> it is not affected by AGC or anything else (except ANL). Simply switch
> antennas and the noise floor should change. I would recommend using
> the polyphase FFT, solid fill, display filtering and set the filtering
> to 'slow' to give maximum visibility of the noise floor.
>
> --
> Duncan Munro
>

102. Re: KGKSDR Build 22 released

Yahoo group: kgksdr
Date: 2006-01-06 17:39:21 UTC
From: n3hkn
Topic: 71 Message: 102

I believe it is an ANL off/on indicator. When a noise pulse is extinguished it comes on. Ignition type noise. Wrong ANL settings will cause it to be on all the time.

Dick N3HKN
--- In kgksdr@yahoogroups.com, Michael Blake <k9jri@s...> wrote:
>
> Duncan,
>
> Again thanks for the hard work. This is really fun from my end but I just discovered a green square to the right of the "ANL" check box and just to the left of the narrowest filter selection box.
>
> What is the function of this "indicator"?
>
> Also, I wonder if it is reasonible to add an automatic notch filter to the software?
>
> This whole SoftRock thing is great fun!!
>
> 73 - Mike - K9JRI
>
>
> Duncan Munro <m0kgk@d...> wrote:
> In response to a few issues with build 21, build 22 has just been
> uploaded to the website at http://www.m0kgk.co.uk/sdr/
>
> Key changes are:
>
> FIXED: Problem with calibration when playing IQ files. Changing the
> receiver options could switch cal map from the wave file one to the
> normal receiver one making the IQ file cal inoperative and messing up
> the receiver map with unwanted data from the IQ file.
>
> FIXED: Problem with filtered spectrum display which would cause the
> software to crash if a pure zero signal was used.
>
> ADDED: AM filter for 10.5kHz.
>
> ADDED: Variable rate filtering for the spectrum display, can be
> amended with Options -> Receiver -> Display.
>
> 73,
>
> Duncan M0KGK

>
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>
> Yahoo! Groups Links
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>
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>
>
>
>
> 73 - Mike - K9JRI
>

103. Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-06 21:23:53 UTC
From: Guido
Topic: 103 Message: 103

Bob,

Also tried SoundBlaster Live 24 internal card. Automatic I/Q balance does not work in Rocky and KGKSDR. But in SDRadio, when configuring a phase delay of 10.4 microseconds at 96kHz samplerate, I get very good results with IQ band supression!

Since 10.4 microseconds is about the periodetime of 96kHz, I suspect that the left/right channels is delayed by exactly one sample. Think a similar effect was seen when doing PCM2800 soundchip experiments.
It would be nice if a (fractional) delay filter can be configured in Rocky and KGKSDR too. :-)

Guido
pe1nnz

----- Original Message -----
From: "edward_flwr" <bobb@...>
To: <softrock40@yahoogroups.com>
Sent: Friday, January 06, 2006 8:52 PM
Subject: [softrock40] Sound Card

> I would like to purchase a internal PCI sound card that is lower
> priced than a Delta 44, and will give me wider frequency coverage
> using Rocky. Some members of the group have tried the SoundBlaster
> Live 24, and found that this card gives the desired frequency
> coverage, but that the I/Q balance does not work. Is this also true on
> the Santa Cruz Ver 5.1 card? Are there any other Internal PCI sound
> cards that may work? I think Cecil (KD5NWA) had a good point when he
> said: "A lot of sound cards can sample at 96Khz, but that doesn't mean
> that their amplifiers are capable of passing a 48Khz signal."
>
> Bob W2AWS
>
>
>
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> Yahoo! Groups Links
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104. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-06 22:45:50 UTC
From: Duncan Munro
Topic: 103 Message: 104

Guido wrote:
> Bob,
>
> Also tried SoundBlaster Live 24 internal card. Automatic I/Q balance does
> not work in Rocky and KGKSDR. But in SDRadio, when configuring a phase delay
> of 10.4 microseconds at 96kHz samplerate, I get very good results with IQ
> band supression!
>
> Since 10.4 microseconds is about the periodetime of 96kHz, I suspect that
> the left/right channels is delayed by exactly one sample. Think a similar
> effect was seen when doing PCM2800 soundchip experiments.
> It would be nice if a (fractional) delay filter can be configured in Rocky
> and KGKSDR too. :-)

Hi Guido, I'll have a look at this. I saw something on Alberto's
SDRadio site and didn't understand why he had to do it. Now it has all
become clear.

Maybe a dropdown with:

Delay I by 1 sample
No delay
Delay Q by 1 sample

I'm not ready to release another build just yet, but I can make a
version available for you with this facility in.

--
Duncan Munro
http://www.m0kgk.co.uk/

105. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 15:13:47 UTC
From: Duncan Munro
Topic: 103 Message: 105

Guido wrote:

> Since 10.4 microseconds is about the periodetime of 96kHz, I suspect that
> the left/right channels is delayed by exactly one sample. Think a similar
> effect was seen when doing PCM2800 soundchip experiments.
> It would be nice if a (fractional) delay filter can be configured in Rocky
> and KGKSDR too. :-)

Hi Guido,

I'm just about to have a look at this one, here's a few thoughts before
I steam in and make a start on it.

1. If the delay is exactly one sample, the solution is really easy. If
it's part of a sample it gets a little uglier :-)

2. From the very limited references I've found, the cause of the issue
appears to be multiplexing sample and hold inputs on the ADCs at
slightly different times. Do you have any further references on this
problem or resulting discussion that you could point me to?

3. Calibration would be more convenient if split into two independent
areas - Amplitude/phase correction of the receiver hardware, and
amplitude timing correction of the soundcard for those cards that need
it. This prevents something like SR5 which may have large phase errors
getting mixed up in the cal for the soundcard.

4. Finally... I believe the card in question is called "Creative Sound
Blaster Live! 24-Bit 7.1" If you can confirm that, I'll go out and buy
one and work out the best way to approach this.

--
Duncan Munro
http://www.m0kgk.co.uk/

106. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 16:55:12 UTC
From: Bill Tracey
Topic: 103 Message: 106

I don't know the specifics of the sound card in question, but there are some sound cards where the left and right are displaced by exactly one sample - I saw this on a PCM 2900. the left channel leads the right by exactly 1 sample on input and output (see the last pic on the page @ http://www.tracey.org/wjt/sdr1k/sr2900.specpics/ for the output waveform) With PowerSDR I could not get this to null the opposite sideband without adding a hack to fix the sample offset, and then it nulled just fine.

If you think you've got a card that may be off by a sample between channels, feed the same square wave to both sides and record it and look at it in a wave file viewer, the sample offset should be apparent.

You may be able to avoid buying the card to debug this by getting someone who has one to record a .wav file with the appropriate sampling rates and work on the wave file.

Cheers,

Bill (kd5tfd)

At 09:13 AM 1/7/2006, Duncan Munro wrote:
>Guido wrote:
>
> > Since 10.4 microseconds is about the periodetime of 96kHz, I suspect that
> > the left/right channels is delayed by exactly one sample. Think a similar
> > effect was seen when doing PCM2800 soundchip experiments.
> > It would be nice if a (fractional) delay filter can be configured in Rocky
> > and KGKSDR too. :-)
>
>Hi Guido,
>
>I'm just about to have a look at this one, here's a few thoughts before
>I steam in and make a start on it.
>
>1. If the delay is exactly one sample, the solution is really easy. If
>it's part of a sample it gets a little uglier :-)
>
>2. From the very limited references I've found, the cause of the issue
>appears to be multiplexing sample and hold inputs on the ADCs at
>slightly different times. Do you have any further references on this
>problem or resulting discussion that you could point me to?
>
>3. Calibration would be more convenient if split into two independent
>areas - Amplitude/phase correction of the receiver hardware, and
>amplitude timing correction of the soundcard for those cards that need

>it. This prevents something like SR5 which may have large phase errors
>getting mixed up in the cal for the soundcard.
>
>4. Finally... I believe the card in question is called "Creative Sound
>Blaster Live! 24-Bit 7.1" If you can confirm that, I'll go out and buy
>one and work out the best way to approach this.
>
>--
>Duncan Munro
><http://www.m0kgk.co.uk/>http://www.m0kgk.co.uk/

107. Noise Reduction - Only strong Signals??

Yahoo group: kgksdr
Date: 2006-01-07 17:35:55 UTC
From: n3hkn
Topic: 107 Message: 107

The noise reduction (ANR) seems to be most effective on strong signals (relative term). On low signals, and general background noise, there is almost no aural effect. I took notice of the S-meter versus my ears. The S-meter drops about 2 units in level (ANR at Expansion=5, Threshold=50) when applying ANR with no noticeable drop in aural noise. The AGC setting of Manual, or the others, does not change the results.

It is as if there is a seperate AGC action taking place which masks the effect of the ANR at low levels. It would be nice to allow the aural level, and the display, to be changed by ANR since that is one of the reasons it is beneficial. I am not sure that it actually improves the S/N ratio since only the S-meter level seems to be change when ANR is applied at low signal levels.

Regards,
Dick N3HKN

108. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 18:14:52 UTC
From: Duncan Munro
Topic: 103 Message: 108

Bill Tracey wrote:
> I don't know the specifics of the sound card in question, but there are
> some sound cards where the left and right are displaced by exactly one
> sample - I saw this on a PCM 2900. the left channel leads the right by
> exactly 1 sample on input and output (see the last pic on the page @
> http://www.tracey.org/wjt/sdr1k/sr2900.specpics/ for the output
> waveform) With PowerSDR I could not get this to null the opposite
> sideband without adding a hack to fix the sample offset, and then it nulled
> just fine.

Hi Bill, thanks for the link. I can put an optional delay in the
software without much hardship and see how that goes.

> If you think you've got a card that may be off by a sample between
> channels, feed the same square wave to both sides and record it and look at
> it in a wave file viewer, the sample offset should be apparent.
>
> You may be able to avoid buying the card to debug this by getting someone
> who has one to record a .wav file with the appropriate sampling rates and
> work on the wave file.

That's a good tip. If the slip-a-sample doesn't work, I'll see if I can
get someone to record a wav to do some further experiments on it.

--
Duncan Munro
http://www.m0kgk.co.uk/

109. Re: [kgksdr] Noise Reduction - Only strong Signals??

Yahoo group: kgksdr
Date: 2006-01-07 18:47:25 UTC
From: Duncan Munro
Topic: 107 Message: 109

n3hkn wrote:
> The noise reduction (ANR) seems to be most effective on strong signals
> (relative term). On low signals, and general background noise, there
> is almost no aural effect. I took notice of the S-meter versus my
> ears. The S-meter drops about 2 units in level (ANR at Expansion=5,
> Threshold=50) when applying ANR with no noticeable drop in aural
> noise. The AGC setting of Manual, or the others, does not change the
> results.
>
> It is as if there is a seperate AGC action taking place which masks
> the effect of the ANR at low levels. It would be nice to allow the
> aural level, and the display, to be changed by ANR since that is one
> of the reasons it is beneficial. I am not sure that it actually
> improves the S/N ratio since only the S-meter level seems to be change
> when ANR is applied at low signal levels.

Hi Dick, the AGC will compensate for the reduced noise and it will sound just as loud (except more burbly). There used to be an audio gating facility while the ANR was being developed, this was taken out. I've put it back in and will make a temp build available later on this evening. This really does make the effect of the ANR stand out in a big way.

To observe the gain reduction on manual AGC, you will need to turn the RF gain down until the signal starts getting quieter, then put the ANR on. ps: Expansion=5 will not get much noise reduction for you, a higher expansion ratio and slightly lower threshold will probably give a better result. I'm still playing around with the numbers but Expansion=10, Threshold=40 seems to give nice results although these are all a matter of taste.

Will give you a shout on this board later when I've re-done the build, I have also re-done the Manual AGC so that manual really does mean manual. This carries with it the health warning that it's easy to hard-clip overload the amp/speakers. There will be nothing to prevent severe overload, so I'll probably do something which cuts the output or puts at low amplitude tone in.

--
Duncan Munro
http://www.m0kgk.co.uk/

110. Re: Noise Reduction - Only strong Signals??

Yahoo group: kgksdr
Date: 2006-01-07 19:18:09 UTC
From: n3hkn
Topic: 107 Message: 110

I just discovered that if you set the "RF" gain to some value that
reduces the sound. Then you can turn on ANR and hear the full effect
of the noise reduction!

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > The noise reduction (ANR) seems to be most effective on strong signals
> > (relative term). On low signals, and general background noise, there
> > is almost no aural effect. I took notice of the S-meter versus my
> > ears. The S-meter drops about 2 units in level (ANR at Expansion=5,
> > Threshold=50) when applying ANR with no noticeable drop in aural
> > noise. The AGC setting of Manual, or the others, does not change the
> > results.
> >
> > It is as if there is a seperate AGC action taking place which masks
> > the effect of the ANR at low levels. It would be nice to allow the
> > aural level, and the display, to be changed by ANR since that is one
> > of the reasons it is beneficial. I am not sure that it actually
> > improves the S/N ratio since only the S-meter level seems to be change
> > when ANR is applied at low signal levels.
>
> Hi Dick, the AGC will compensate for the reduced noise and it will
sound
> just as loud (except more burbly). There used to be an audio gating
> facility while the ANR was being developed, this was taken out. I've
> put it back in and will make a temp build available later on this
> evening. This really does make the effect of the ANR stand out in a
big
> way.
>
> To observe the gain reduction on manual AGC, you will need to turn the
> RF gain down until the signal starts getting quieter, then put the ANR
> on. ps: Expansion=5 will not get much noise reduction for you, a
higher
> expansion ratio and slightly lower threshold will probably give a
better
> result. I'm still playing around with the numbers but Expansion=10,
> Threshold=40 seems to give nice results although these are all a matter
> of taste.
>
> Will give you a shout on this board later when I've re-done the
build, I

> have also re-done the Manual AGC so that manual really does mean
manual.
> This carries with it the health warning that it's easy to hard-clip
> overload the amp/speakers. There will be nothing to prevent severe
> overload, so I'll probably do something which cuts the output or
puts at
> low amplitude tone in.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

111. Re: [kgksdr] Re: Noise Reduction - Only strong Signals??

Yahoo group: kgksdr
Date: 2006-01-07 19:33:57 UTC
From: Duncan Munro
Topic: 107 Message: 111

n3hkn wrote:
> I just discovered that if you set the "RF" gain to some value that
> reduces the sound. Then you can turn on ANR and hear the full effect
> of the noise reduction!

Dick, it will get even better when the audio noise gating is in later
this evening! Also, the RF gain on manual AGC is coming along nicely.
If you overcook it and risk trashing the speakers, it politely mutes and
sends "RF" in CW :-)

Just fixing up the 'slip-a-sample' for the Soundblaster cards and I'm there.

--
Duncan Munro
http://www.m0kgk.co.uk/

112. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 19:50:01 UTC
From: Guido
Topic: 103 Message: 112
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

113. KGKSDR Build 25 released

Yahoo group: kgksdr
Date: 2006-01-07 21:25:25 UTC
From: Duncan Munro
Topic: 113 Message: 113

Build 25 released which contains a small number of fixes and enhancements, the key one being the ability to optionally delay either the left or right input channel by one sample:

FIXED: Some problems with AGC filtering which could cause clipping.

FIXED: RF gain control is now a pure gain control instead of 'gain limit'. It's possible to seriously overload the speakers now, so the software will send "RF" in CW if it needs you to turn the RF gain down.

ADDED: Audio gating for ANR function to enhance the effect even further.

ADDED: Facility to delay samples (either left or right) to correct an issue with Creative SB cards Live! 24 that have a sample delay on them.

Download is at: http://www.m0kgk.co.uk/sdr/

73,

Duncan M0KGK

114. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 21:31:22 UTC
From: Guido
Topic: 103 Message: 114
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

115. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 21:35:43 UTC
From: Guido
Topic: 103 Message: 115
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

116. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-07 22:27:23 UTC
From: Duncan Munro
Topic: 103 Message: 116

Guido wrote:
> Duncan,
>
> Forgot something:
>
> 4. Yes, it is a Creative Soundblaster Live! 24 bit

Hi Guido, no need for any further tests or for me to buy a card as it looks like the recent changes may be successful :-)

I don't know how you did the sweep, I'm guessing a signal generator which would explain the weak signals being received. KGKSDR did have some difficulty making an adjustment from the weak RTTY signals on there, but after some bodging I managed to get it to do it.

There's a screen shot of your file with images now cancelled at:

http://groups.yahoo.com/group/kgksdr/files/Screenshots/

It's called guido.gif

If you download Build 25 as posted here a little while back, then go to Options -> Receiver -> Hardware. In the dropdown that says Sampling, select "Delay Right by 1 sample".

Now connect the antenna instead of a sig gen and using Options -> Receiver -> General, get the software to Collect Cal Data and Apply Calibrations. After a little while, it will "learn" and all the images will be gone :-D

--
Duncan Munro
http://www.m0kgk.co.uk/

117. Calibration Reset-Leave freq data in place

Yahoo group: kgksdr
Date: 2006-01-08 04:12:36 UTC
From: n3hkn
Topic: 117 Message: 117

Something for the future, if it has merit. Since this is largely experimental hardware and software extremes may be reached. I have found that I have been able to cause the calibration to go off and rather than wait for a "re-learn" I just do a Reset. The disadvantage is that the frequency data is also erased. So now I manually erase the calibration files. Perhaps at some future point you could modify the erasure function to leave the frequency data file.

So far it looks good. Signals have disappeared from the band here so tomorrow will be a better test/fiddling experience. Next week I get my lo-band module so more fun ahead. At some point the need for a matching transmitter becomes overwhelming.

Regards,
Dick N3HKN

118. Re: [kgksdr] Calibration Reset-Leave freq data in place

Yahoo group: kgksdr
Date: 2006-01-08 09:47:29 UTC
From: Duncan Munro
Topic: 117 Message: 118

n3hkn wrote:
> Something for the future, if it has merit. Since this is largely
> experimental hardware and software extremes may be reached. I have
> found that I have been able to cause the calibration to go off and
> rather than wait for a "re-learn" I just do a Reset. The disadvantage
> is that the frequency data is also erased. So now I manually erase the
> calibration files. Perhaps at some future point you could modify the
> erasure function to leave the frequency data file.

Hi Dick, not sure I understood that one - if I explain the scenarios, maybe you can give me a bit more info?

The Reset procedure is to pull up the cal map with Options -> Calibration, right-click on it and select the reset option. This will clear the data points for that frequency profile. It won't affect the frequency profile itself, and this is the recommended method if you want to reset a calibration map.

The old procedure was to go to the application data folder and delete everything. It's brutal - this will get rid of every calibration map and also the list of frequency profiles. Doing this is no longer recommended as the later versions of the software will deal with corrupt maps etc.

> So far it looks good. Signals have disappeared from the band here so
> tomorrow will be a better test/fiddling experience. Next week I get my
> lo-band module so more fun ahead. At some point the need for a
> matching transmitter becomes overwhelming.

Indeed!

--
Duncan Munro
http://www.m0kgk.co.uk/

119. Re: Calibration Reset-Leave freq data in place

Yahoo group: kgksdr
Date: 2006-01-08 13:52:00 UTC
From: n3hkn
Topic: 117 Message: 119

My mistake - I thought that the frequency data disappeared on a map
reset. Goofed on that one. Back to the fun..

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > Something for the future, if it has merit. Since this is largely
> > experimental hardware and software extremes may be reached. I have
> > found that I have been able to cause the calibration to go off and
> > rather than wait for a "re-learn" I just do a Reset. The disadvantage
> > is that the frequency data is also erased. So now I manually erase the
> > calibration files. Perhaps at some future point you could modify the
> > erasure function to leave the frequency data file.
>
> Hi Dick, not sure I understood that one - if I explain the scenarios,
> maybe you can give me a bit more info?
>
> The Reset procedure is to pull up the cal map with Options ->
> Calibration, right-click on it and select the reset option. This will
> clear the data points for that frequency profile. It won't affect the
> frequency profile itself, and this is the recommended method if you
want
> to reset a calibration map.
>
> The old procedure was to go to the application data folder and delete
> everything. It's brutal - this will get rid of every calibration map
> and also the list of frequency profiles. Doing this is no longer
> recommended as the later versions of the software will deal with
corrupt
> maps etc.
>
> > So far it looks good. Signals have disappeared from the band here so
> > tomorrow will be a better test/fiddling experience. Next week I get my
> > lo-band module so more fun ahead. At some point the need for a
> > matching transmitter becomes overwhelming.
>
> Indeed!
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

120. "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 14:42:34 UTC
From: n3hkn
Topic: 120 Message: 120

Thanks to the 5kw stacked beams of the RTTY contestors strong signals at the top limit (around 14.080) are imaged at the bottom limit (around 14.030). Despite some amazing signals I see no other images that fall within the "normal" passband of my Turtle Beach running at 96khz. I assume this is to be expected but wanted to make sure. It is really harmless since the recovered signals fall off rapidly at the top and bottom extremes of the passband.

Two other questions - regarding the calibration maps. Is there some ideal for the amplitude and phase maps such as a perfect diagonal or a straight horizontal line? Also, after 300,000 stat points should I turn off calibration and assume that it is at the best image rejection capability and not risk distorting the results as I play with balance or other variables?

Dick N3HKN

121. Re: [kgksdr] "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 14:57:39 UTC
From: Duncan Munro
Topic: 120 Message: 121

n3hkn wrote:
> Thanks to the 5kw stacked beams of the RTTY contestors strong signals
> at the top limit (around 14.080) are imaged at the bottom limit
> (around 14.030). Despite some amazing signals I see no other images
> that fall within the "normal" passband of my Turtle Beach running at
> 96khz. I assume this is to be expected but wanted to make sure. It is
> really harmless since the recovered signals fall off rapidly at the
> top and bottom extremes of the passband.

Hi Dick, there may be some imaging at the top and bottom of the range
and this is not unusual. KGKSDR won't take calibration info from the
very start or very end of a band for this reason.

> Two other questions - regarding the calibration maps. Is there some
> ideal for the amplitude and phase maps such as a perfect diagonal or
> a straight horizontal line?

If you got an absolute flat/straight line with 1.0 I/Q ratio and zero
degrees of phase shift, that would be ideal as it indicates a perfect
detector. The real world is somewhat different, so expect some
diagonals, curved diagonals, or even bowl shapes depending on the
detector you are using. The key thing here is to get a curve that's a
reasonably close fit to the amplitude/phase errors.

> Also, after 300,000 stat points should I
> turn off calibration and assume that it is at the best image rejection
> capability and not risk distorting the results as I play with balance
> or other variables?

Don't know what you mean by playing with balance, but if it involves
altering the soundcard input balance, then the recalibration will have
to be reset and started again. Turning off calibration collection in
those circumstances won't help, as the existing map you have is no
longer suitable for the 'changed' inputs and won't give optimal image
cancellation.

--
Duncan Munro
http://www.m0kgk.co.uk/

122. Re: [kgksdr] "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 16:37:01 UTC
From: N Munro
Topic: 120 Message: 122

n3hkn wrote:

> Thanks to the 5kw stacked beams of the RTTY contestors strong signals
> at the top limit (around 14.080) are imaged at the bottom limit
> (around 14.030). Despite some amazing signals I see no other images
> that fall within the "normal" passband of my Turtle Beach running at
> 96khz. I assume this is to be expected but wanted to make sure. It is
> really harmless since the recovered signals fall off rapidly at the
> top and bottom extremes of the passband.

Dick,
I was just about to contact Duncan off list about this problem, but may as well make my thoughts public.
Up to this weekend I have never had any reason to suspect an imaging problem with SDR, however, all the RTTY contest activity today has made me think again.
Listening to some SSB around 7075 I was conscious of quite strong RTTY signals in the background, switching over to the Yaesu FT-990 showed absolutely no sign of RTTY under the same transmission. I was able to repeat those results on various other frequencies. These were not "weak" signals, in fact they were quite intrusive.
I got similar results with the 20 BPF/Osc board but not so pronounced.
Visual inspection of the QSD board (common denominator)doesn't show up any solder splashes etc.
I have swapped the I/Q inputs and while this inverts the band (Inverted SSB at the low end, CW at the high end) the problem is still evident.

Are we expecting too much rejection from such basic hardware? Does anyone have any figures for how many dB down the image signal should be?
I will get the signal generator out tomorrow and do a sweep of the relevant frequencies to see how the image compares with the "real" signal.

There remains the possibility that my QSD board is faulty so that needs to be eliminated first. I'm a little puzzled that it should have appeared to be working as I expected until the very strong signals appeared this weekend.

73

Norman Munro
GM4KGK

123. Re: "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 17:22:55 UTC
From: gm4kgk
Topic: 120 Message: 123

Just to clarify my previous post - this appears to be a hardware
problem. Not yet sure if it's general or specific to my setup here.
I have checked 40m using Rocky 1.4 and the symptoms are still evident.

Norman
GM4KGK

124. Re: "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 17:38:58 UTC
From: radiodoc43
Topic: 120 Message: 124

--- In kgksdr@yahoogroups.com, N Munro <norman@g...> wrote:

> Listening to some SSB around 7075 I was conscious of quite strong
RTTY
> signals in the background, switching over to the Yaesu FT-990
showed
> absolutely no sign of RTTY under the same transmission. >
> Are we expecting too much rejection from such basic hardware? Does
> anyone have any figures for how many dB down the image signal
should be?

I have not seen any evidence of the images you describe thus far with
my SR v5.

The KGKSDR software is fantastic.

One thing that I would suggest based on my experience with the SDR-
1000 is to make sure all sound enhancing features are turned off on
the sound card. (echo, reverb, surround, etc.)

Also, the audio cable connections have to be good so that I and Q can
be appropriately balanced. I had some images when using flaky audio
cables, and resorted to gold plated connectors to solve my problem.

Enjoy this great radio and software!

73 KC2LFI
Craig

125. Re: [kgksdr] "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 18:39:17 UTC
From: Duncan Munro
Topic: 120 Message: 125

N Munro wrote:

> Are we expecting too much rejection from such basic hardware? Does
> anyone have any figures for how many dB down the image signal should be?
> I will get the signal generator out tomorrow and do a sweep of the
> relevant frequencies to see how the image compares with the "real" signal.

A couple of caveats, very strong signals will cause multiple images all over the band - turn the sig gen right up and you will see the spectrum display fill up with plenty of things that shouldn't be there.

Caveat #2: Unplugging the antenna and plugging in a signal generator will need different calibration parameters as the mixer is not isolated from the input by any kind of pad or preamp. The easy way round this is create another "frequency", even if it's exactly the same frequency as normal - this will force another cal map to be created. For example, I have "Softrock 7054.43" and "Sig gen 7054.43".

I've just spent an hour or so with the signal generator, and have a stack of screen dumps and notes/tables. This should set some expectations for image rejection in software. Back in a few mins...

--
Duncan Munro
http://www.m0kgk.co.uk/

126. Re: [kgksdr] "Out of Band" Images??

Yahoo group: kgksdr
Date: 2006-01-08 19:08:23 UTC
From: KD5NWA
Topic: 120 Message: 126

Picking up signals that are not there are cause by two different problems.

The input filters to the SoftRock series are way too broad, they were made that way in the interest of people easily moving the frequency around.

A QSD detector will receive signals at other frequencies other than the clock frequency, it's called sub-sampling, you can pick signals a 2X, 1/2X and other non-integer frequency ratios. To reject these signals you need to have a selective front end, which the SR-5 and SR-4 do not have.

Imaging problems, where you see a signal in both the lower and upper part of the band is limited to how well the components in the I and Q detectors match each other. This can be mitigated by the software compensating for the phase and amplitude imbalance of the two signals.

With the SR-4 I built and the Rocky software I was able to measure over 60db of image rejection, by calibrating it with a high level signal, after calibration, I turned off the gathering of data. As I swept the transmitter through the band, I was not transmitting, I would stop every 1 KHz, and turn the transmitter on for several seconds, turn it off, then move a KHz then turn it back on. Although it's tempting to keep the transmitter on while moving it I felt it would be more accurate if the measured frequency was not changing.

At 10:37 AM 1/8/2006, you wrote:
>n3hkn wrote:
>>Thanks to the 5kw stacked beams of the RTTY contestors strong signals
>>at the top limit (around 14.080) are imaged at the bottom limit
>>(around 14.030). Despite some amazing signals I see no other images
>>that fall within the "normal" passband of my Turtle Beach running at
>>96khz. I assume this is to be expected but wanted to make sure. It is
>>really harmless since the recovered signals fall off rapidly at the
>>top and bottom extremes of the passband.
>Dick,
>I was just about to contact Duncan off list about this problem, but
>may as well make my thoughts public.
>Up to this weekend I have never had any reason to suspect an imaging
>problem with SDR, however, all the RTTY contest activity today has
>made me think again.
>Listening to some SSB around 7075 I was conscious of quite strong
>RTTY signals in the background, switching over to the Yaesu FT-990
>showed absolutely no sign of RTTY under the same transmission. I was
>able to repeat those results on various other frequencies. These
>were not "weak" signals, in fact they were quite intrusive.
>I got similar results with the 20 BPF/Osc board but not so

>pronounced. Visual inspection of the QSD board (common
>denominator)doesn't show up any solder splashes etc.
>I have swapped the I/Q inputs and while this inverts the band
>(Inverted SSB at the low end, CW at the high end) the problem is still evident.
>
>Are we expecting too much rejection from such basic hardware? Does
>anyone have any figures for how many dB down the image signal should be?
>I will get the signal generator out tomorrow and do a sweep of the
>relevant frequencies to see how the image compares with the "real" signal.
>
>There remains the possibility that my QSD board is faulty so that
>needs to be eliminated first. I'm a little puzzled that it should
>have appeared to be working as I expected until the very strong
>signals appeared this weekend.
>
>73
>
>Norman Munro
>GM4KGK
>
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group
> "<http://groups.yahoo.com/group/kgksdr>kgksdr" on the web.
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> * To unsubscribe from this group, send an email to:
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>
>
>----------

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

127. Images and Distortion

Yahoo group: kgksdr
Date: 2006-01-08 19:34:56 UTC
From: Duncan Munro
Topic: 127 Message: 127

Quite a lot on here today, the strong RTTY stations recently seem to have stimulated quite a lot of discussion!

I've spent some time testing with the signal generator, and trying to come up with some test results for strong signal handling. It was possible to make the calibration correction completely fall apart, this being traced to distortion of the input signal.

It's not totally clear whether the detector or following op-amps are the cause of the distortion, or if it's the sound card itself. More testing is needed in that area.

In the files area, there is a new section called overloading which can be found by clicking here:
http://groups.yahoo.com/group/kgksdr/files/Overloading/

The format was to take an S9 signal and increase it until problems started, there is definitely a point at which things go badly wrong. There's also a chart of the image rejection capability at signal levels from S9+46dB to S9+64dB and you can see that when distortion comes in, the correction goes downhill very quickly.

In summary: The software calibration should get around 60dB of image rejection, and often more as long as the incoming signal is undistorted. See also the note from Cecil about sub-sampling as another source of issues - this is not something that can be fixed with software, nor can images just above the Nyquist frequency which are inadequately filtered (aliasing).

Testing was done with Softrock 40, Delta-66 soundcard, and KGKSDR.

73,

Duncan M0KGK

128. RF gain

Yahoo group: kgksdr
Date: 2006-01-09 06:03:56 UTC
From: Stan Rife
Topic: 128 Message: 128

Duncan,
I downloaded the latest version just now and it appears that the RF gain is not working. Just thought I would let you know.

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

129. Re: [kgksdr] RF gain

Yahoo group: kgksdr
Date: 2006-01-09 09:34:47 UTC
From: N Munro
Topic: 128 Message: 129

Stan Rife wrote:

> Duncan,
> I downloaded the latest version just now and it appears that the RF
> gain is not working. Just thought I would let you know.
>
> Stan Rife

Stan,
Duncan appears to have taken out the RF Gain control on the AGC modes -
it works OK on the Manual setting.
Not sure if this was intentional, I'm sure he will enlighten us when he
gets home from work this evening.
73

Norman - GM4KGK

130. Re: [kgksdr] RF gain

Yahoo group: kgksdr
Date: 2006-01-09 12:10:07 UTC
From: Duncan Munro
Topic: 128 Message: 130

```
>
> Stan Rife wrote:
>
> > Duncan,
> > I downloaded the latest version just now and it appears that
the RF
> > gain is not working. Just thought I would let you know.
> >
> > Stan Rife
>
> Stan,
> Duncan appears to have taken out the RF Gain control on the AGC
modes -
> it works OK on the Manual setting.
> Not sure if this was intentional, I'm sure he will enlighten us when
he
> gets home from work this evening.

It was semi-intentional :-)

The purpose of the RF gain prior to build 25 was:

Manual AGC: Limit the maximum amount of gain applied, large transients
would cause gain to be reduced anyway (i.e. like AGC but instant).

Automatic AGC: Limit the maximum amount of gain applied, AGC effect
would reduce gain anyway.

From build 25:

Manual AGC: Sets the gain level. There is no AGC.

Automatic AGC: Has been temporarily removed, gain is set by the AGC.

Just mulling this one over, I'm trying to work out how significant the
RF gain is, or if it's of any use at all. It's not really an RF gain
at all, and perhaps the naming of that control is a bad one.

Would like some feedback (if anyone is using RF gain), what situations
it's used in, and where it's useful. Also if anyone is using Manual
AGC as opposed to Automatic AGC, what sort of scenarios they find that
useful in.

I find myself not using the RF gain at all, or the Manual AGC as the
combination of Auto AGC with 'brick wall' filters allows me to pick the
signal I need without AGC pumping from adjacent strong signals.
However, I'd welcome the thoughts of others on this one...
```

73,

--
Duncan Munro
M0KGK

131. Re: [kgksdr] RF gain

Yahoo group: kgksdr
Date: 2006-01-09 13:05:47 UTC
From: N Munro
Topic: 128 Message: 131

Duncan Munro wrote:

> Just mulling this one over, I'm trying to work out how significant the
> RF gain is, or if it's of any use at all. It's not really an RF gain
> at all, and perhaps the naming of that control is a bad one.
>
> Would like some feedback (if anyone is using RF gain), what situations
> it's used in, and where it's useful. Also if anyone is using Manual
> AGC as opposed to Automatic AGC, what sort of scenarios they find that
> useful in.
>
> I find myself not using the RF gain at all, or the Manual AGC as the
> combination of Auto AGC with 'brick wall' filters allows me to pick
> the signal I need without AGC pumping from adjacent strong signals.
> However, I'd welcome the thoughts of others on this one...

In normal operating (i.e. about 99% of the time) I use AGC, but there
are times when it is useful to be able to control the gain of the
system. Yesterday's RTTY contest was a good example.
Personally (and not everyone will agree), I would prefer something along
the lines of an attenuator which cuts down all the signals within
spectrum (quite wide in the case of SDR).
Just my two pence worth.

GM4KGK

132. Re: RF gain

Yahoo group: kgksdr
Date: 2006-01-09 13:14:14 UTC
From: n3hkn
Topic: 128 Message: 132

Regards the RF Gain control - probably more confusing than function. However, I am not clear about where the "control" sets in the processing. If there is some benefit to two level control then ok otherwise it may be of little real use.

As I remember the past with SDR stuff there seems to be a limit of about 60db for image rejection. The other stuff (2x clock etc.) would need either a manual or tracking preselector. I use a small square loop 1 meter/side made from copper water pipe and its very narrow bandwidth probably serves to protect me from the 2x etc. signals so I have never noticed anything strange such as SSB in the RTTY/digital area where it is resonated.

Perhaps someone can look at the BPF board and see if the bandwidth can be narrowed with component changes to clean up any out of range signals. For those with DDS VFOs this does not help.

One good thing comes from the RTTY contest - excellent strong test signals that places the capabilities of the system in perspective.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>
>
> >
> > Stan Rife wrote:
> >
> > > Duncan,
> > > I downloaded the latest version just now and it appears that
> the RF
> > > gain is not working. Just thought I would let you know.
> > >
> > > Stan Rife
> >
> > Stan,
> > Duncan appears to have taken out the RF Gain control on the AGC
> modes -
> > it works OK on the Manual setting.
> > Not sure if this was intentional, I'm sure he will enlighten us when
> he
> > gets home from work this evening.
>
> It was semi-intentional :-)
>

> The purpose of the RF gain prior to build 25 was:
>
> Manual AGC: Limit the maximum amount of gain applied, large transients
> would cause gain to be reduced anyway (i.e. like AGC but instant).
>
> Automatic AGC: Limit the maximum amount of gain applied, AGC effect
> would reduce gain anyway.
>
> From build 25:
>
> Manual AGC: Sets the gain level. There is no AGC.
>
> Automatic AGC: Has been temporarily removed, gain is set by the AGC.
>
> Just mulling this one over, I'm trying to work out how significant the
> RF gain is, or if it's of any use at all. It's not really an RF gain
> at all, and perhaps the naming of that control is a bad one.
>
> Would like some feedback (if anyone is using RF gain), what situations
> it's used in, and where it's useful. Also if anyone is using Manual
> AGC as opposed to Automatic AGC, what sort of scenarios they find that
> useful in.
>
> I find myself not using the RF gain at all, or the Manual AGC as the
> combination of Auto AGC with 'brick wall' filters allows me to pick the
> signal I need without AGC pumping from adjacent strong signals.
> However, I'd welcome the thoughts of others on this one...
>
> 73,
>
> --
> Duncan Munro
> M0KGK
>

133. Re: [kgksdr] Images and Distortion

Yahoo group: kgksdr
Date: 2006-01-09 13:16:40 UTC
From: N Munro
Topic: 127 Message: 133

Duncan Munro wrote:

> In summary: The software calibration should get around 60dB of image
> rejection, and often more as long as the incoming signal is
> undistorted. See also the note from Cecil about sub-sampling as
> another source of issues - this is not something that can be fixed
> with software, nor can images just above the Nyquist frequency which
> are inadequately filtered (aliasing).

Duncan,
Been doing some testing with the sig gen as you suggested. Image rejection on my setup is about -60dB on average, sometimes slightly better, sometimes as poor as -30 dB depending on where you are in the band. It does vary but my sig gen not exactly state of the art.

For bedtime reading last night I had a look at the QST reviews of the FlexRadio SDR1000. The first review quoted image rejection as -56dB, the later version (Delta44 soundcard) achieved -75dB. These figures are much worse than can be expected from conventional radios but perhaps that's the limit of present technology with SDR.

GM4KGK

134. Re: [kgksdr] Re: RF gain

Yahoo group: kgksdr
Date: 2006-01-09 13:59:54 UTC
From: Duncan Munro
Topic: 128 Message: 134

> Regards the RF Gain control - probably more confusing than function.
> However, I am not clear about where the "control" sets in the
> processing. If there is some benefit to two level control then ok
> otherwise it may be of little real use.

The 'RF' control works in the system at pretty much the same place as
the 'AF' control. One is pre-AGC detection, the other is post-AGC
detection. In terms of functionality (on Manual AGC) you can do the
same thing with AF gain.

--
Duncan Munro
M0KGK

135. Re: AGC ideas

Yahoo group: kgksdr
Date: 2006-01-09 14:05:14 UTC
From: Ken - N9VV
Topic: 128 Message: 135

Dear Duncan (and gang),
please take a look at this marvelous document prepared by Phil
VK6APH. It describes the design of a sophisticated AGC system that
seems to have a great deal of appeal to the SDR-1000 folks:
http://www.n9vv.com/VK6APH-AGC-discussion-SDR1000.pdf
de Ken N9VV

136. Re: [kgksdr] Images and Distortion

Yahoo group: kgksdr
Date: 2006-01-09 14:13:18 UTC
From: Duncan Munro
Topic: 127 Message: 136

> For bedtime reading last night I had a look at the QST reviews of the
> FlexRadio SDR1000. The first review quoted image rejection as -56dB,
the
> later version (Delta44 soundcard) achieved -75dB. These figures are
> much worse than can be expected from conventional radios but perhaps
> that's the limit of present technology with SDR.

I'm leaning towards the idea of supplementing the automatic calibration
with a manual one. There used to be a manual cal in the software at
the very start, and I'm result the results were a bit better than the
auotmatic one.

Auto will be great for those with no test equipment, at it should get
an improvement of around 30dB. Manual will allow tweaking to squeeze
the last bit of performance out of the system for those who have some
test equipment available (or want to TX on a low power nearby, or have
a GDO they can dump near the antenna, etc. etc.)

Before doing this, the first thing thing that needs to go in is the
facility to swap the S meter between it's current function (peak
reading), and a dBm meter (RMS reading). This will allow SNR, SIR and
other experiments to provide more meaningful results.

--
Duncan Munro
M0KGK

137. Old version

Yahoo group: kgksdr
Date: 2006-01-09 14:23:05 UTC
From: nels_58701
Topic: 137 Message: 137

I wonder if someone could email me a copy of version 24.
That was working great, I installed 25 on top and nothing works.
Please send to anelson@min.midco.net
Thanks

138. RE: [kgksdr] RF gain

Yahoo group: kgksdr
Date: 2006-01-09 15:36:58 UTC
From: Stan Rife
Topic: 128 Message: 138

Ahhh, wouldn't you know...the first time I don't read the release notes, and I get bit.

Thanks Duncan,

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Monday, January 09, 2006 6:10 AM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] RF gain

>
> Stan Rife wrote:
>
> > Duncan,
> > I downloaded the latest version just now and it appears that the RF
> > gain is not working. Just thought I would let you know.
> >
> > Stan Rife
>
> Stan,
> Duncan appears to have taken out the RF Gain control on the AGC modes -
> it works OK on the Manual setting.
> Not sure if this was intentional, I'm sure he will enlighten us when he
> gets home from work this evening.

It was semi-intentional :-)

The purpose of the RF gain prior to build 25 was:

Manual AGC: Limit the maximum amount of gain applied, large transients would cause gain to be reduced anyway (i.e. like AGC but instant).

Automatic AGC: Limit the maximum amount of gain applied, AGC effect would reduce gain anyway.

From build 25:

Manual AGC: Sets the gain level. There is no AGC.

Automatic AGC: Has been temporarily removed, gain is set by the AGC.

Just mulling this one over, I'm trying to work out how significant the RF gain is, or if it's of any use at all. It's not really an RF gain at all, and perhaps the naming of that control is a bad one.

Would like some feedback (if anyone is using RF gain), what situations it's used in, and where it's useful. Also if anyone is using Manual AGC as opposed to Automatic AGC, what sort of scenarios they find that useful in.

I find myself not using the RF gain at all, or the Manual AGC as the combination of Auto AGC with 'brick wall' filters allows me to pick the signal I need without AGC pumping from adjacent strong signals. However, I'd welcome the thoughts of others on this one...

73,

--
Duncan Munro
M0KGK

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-----

YAHOO! GROUPS LINKS

* Visit your group "kgksdr <http://groups.yahoo.com/group/kgksdr> "
on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

-----

139. Re: [kgksdr] Old version

Yahoo group: kgksdr
Date: 2006-01-09 15:55:59 UTC
From: Duncan Munro
Topic: 137 Message: 139

> I wonder if someone could email me a copy of version 24.
> That was working great, I installed 25 on top and nothing works.
> Please send to anelson@...

Hi, no problem - I can get build 24 out of the VCS and mail you when I get back. Can you let me know what the issue is and I'll see if we can work out what has gone wrong?

--
Duncan Munro
M0KGK

140. Re: [kgksdr] Re: AGC ideas

Yahoo group: kgksdr
Date: 2006-01-09 15:58:52 UTC
From: Duncan Munro
Topic: 128 Message: 140

> Dear Duncan (and gang),
> please take a look at this marvelous document prepared by Phil
> VK6APH. It describes the design of a sophisticated AGC system that
> seems to have a great deal of appeal to the SDR-1000 folks:
> http://www.n9vv.com/VK6APH-AGC-discussion-SDR1000.pdf

Hi ken, thanks for the link. Phil has clearly gone to a great deal of trouble with the document. I'll have a good read when I get in and report back.

--
Duncan Munro
M0KGK

141. RE: [kgksdr] RF gain

Yahoo group: kgksdr
Date: 2006-01-09 15:57:26 UTC
From: Duncan Munro
Topic: 128 Message: 141

> Ahhh, wouldn't you know...the first time I don't read the release notes,
> and I get bit.

Hi Stan, to be fair to yourself I didn't put anything like as much in the release notes as I should have done anyway :-)

--
Duncan Munro
M0KGK

142. Re: [kgksdr] Old version

Yahoo group: kgksdr
Date: 2006-01-09 16:39:07 UTC
From: KD5NWA
Topic: 137 Message: 142

I have a copy of 1.24 with me right now, I'm putting it up on my web site right now. Let me know wen you are through so I can remove it.

< http://www.qrpradio.com/pub/Ham/SDR/SDR%20Software/KGK/ >

At 09:55 AM 1/9/2006, you wrote:
> > I wonder if someone could email me a copy of version 24.
> > That was working great, I installed 25 on top and nothing works.
> > Please send to anelson@...
>
>Hi, no problem - I can get build 24 out of the VCS and mail you when I
>get back. Can you let me know what the issue is and I'll see if we can
>work out what has gone wrong?
>
>--
>Duncan Munro
>M0KGK
>
>
>
>
>Yahoo! Groups Links
>
>
>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

I fail to see why doing the same thing over and over and getting the same results every time is insanity: I've almost proved it isn't; only a few more tests now and I'm sure results will differ this time ...

143. Re: [kgksdr] Re: AGC ideas

Yahoo group: kgksdr
Date: 2006-01-09 17:26:26 UTC
From: N Munro
Topic: 128 Message: 143

Ken - N9VV wrote:

> Dear Duncan (and gang),
> please take a look at this marvelous document prepared by Phil
> VK6APH. It describes the design of a sophisticated AGC system that
> seems to have a great deal of appeal to the SDR-1000 folks:
> http://www.n9vv.com/VK6APH-AGC-discussion-SDR1000.pdf
> de Ken N9VV

Ken,
Great stuff, and more power to Phil's elbow. I understand the words but there's no way I can translate it into software, that's best left to others :-)

One of the "cleanest" CW receivers I've ever used was an old Collins 75A1 (manufactured c. 1947). Not necessarily the BEST receiver I've used but the CW tone was a joy to listen to. The recommendation in the manual for CW was reception was to turn OFF the AGC, run the Audio Gain near flat out and adjust the RF Gain control for a comfortable listening level. It worked beautifully! Different era, different technology, I guess.
73

Norman - GM4KGK

144. AGC Loud Signals vs. Weak

Yahoo group: kgksdr
Date: 2006-01-09 19:10:15 UTC
From: n3hkn
Topic: 144 Message: 144

I agree with the perception that some difference must remain between weak and strong signals. Digital can create a perfect world where all things are equal (given time/money). However, to humans this will sound unatural, or flat, as the author noted. I don't own a Drake unfortunately, but my old Kenwood 520 produces a more pleasent sound than digital flat audio. May be what we are used to, so adding some electronic knobs that allow adjustment to taste may be appropriate. I would also suggest that having a variety of different settings needs some presets to avoid disappontments for users struggling to set the several functions and not getting good results.

Dick N3HKN

145. Re: AGC Loud Signals vs. Weak

Yahoo group: kgksdr
Date: 2006-01-10 10:58:26 UTC
From: Duncan Munro
Topic: 144 Message: 145

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:

> May be what we are used to, so adding some
> electronic knobs that allow adjustment to taste may be appropriate.

OK, no problem on the tone side of things as this is one of the really easy things to put in there.

> I
> would also suggest that having a variety of different settings needs
> some presets to avoid disappontments for users struggling to set the
> several functions and not getting good results.

This is a big problem at this time. The more features that are added, the more overwhelming it becomes. Thanks to the mini-revolution caused by Softrock, SDR is new to a lot of people right now along with some of the concepts that go with it :-)

73,

Duncan M0KGK

146. Suggestion - Do Not Require APPLY for Adjustments

Yahoo group: kgksdr
Date: 2006-01-11 11:39:22 UTC
From: n3hkn
Topic: 146 Message: 146

As the program evolves there will be a possible requirement to add more "electronic knobs". The use of such adjustments (sliders, click boxes, pull-downs, etc.) would be facilitated if the change did not require the constant need to click APPLY.

In user mode changes to the bandwidth cutoffs causes all of the other sliders to change. It would be nice if only the adjusted value changed.

As an "electric knob" an interesting adjustment would be the ability to select different "quality" filtering. That is, to be able to select, or adjust, the slope of the filters. I have read that some of the perceived harsh audio with digital filtering may be due to "close to perfect" filters.

An almost infinite filtering capability versus $100 per crystal filter is to me a major feature of the digital era.

Built up my 40 meter BPF board and now have signals around-the-clock. Heard my first SSB (DX here) it was quite good. I did not have the opportunity to check against my "analog rig" but while the signal was just noticeable on the display it was copyable. A testimony to Digital noise reduction(ANR). Also found that the notch filter to be quite effective when a CW signal appeared in the middle of the SSB signal. Barely noticeable.... Very appreciative that the notch is in the AGC loop.

Regards,
Dick N3HKN

147. Re: [kgksdr] Suggestion - Do Not Require APPLY for Adjustments

Yahoo group: kgksdr
Date: 2006-01-11 18:32:44 UTC
From: Duncan Munro
Topic: 146 Message: 147

n3hkn wrote:
> As the program evolves there will be a possible requirement to add
> more "electronic knobs". The use of such adjustments (sliders, click
> boxes, pull-downs, etc.) would be facilitated if the change did not
> require the constant need to click APPLY.

Hi Dick, a valid point there. It can be tedious to keep going into receiver options to apply little tweaks here and there. This will get moved around so 'day to day' functions are easy to access without having to navigate through screens to do it.

Adjustments for the DSP functions are one that springs to mind right now. It would be nice to be able to tweak the parameters by clicking a small button on the DSP panel, and listening to the effect in real time. There are plenty of other items that fall into this category too.

> In user mode changes to the bandwidth cutoffs causes all of the other
> sliders to change. It would be nice if only the adjusted value changed.

That might be a slight problem as moving one control will cause the value of at least one other control to change! It's possible to alter the software so that moving one control does not _appear_ to change the value of a related control, but this will just cause maximum confusion as to what the real values are at any one time.

> As an "electric knob" an interesting adjustment would be the ability
> to select different "quality" filtering. That is, to be able to
> select, or adjust, the slope of the filters. I have read that some of
> the perceived harsh audio with digital filtering may be due to "close
> to perfect" filters.

There may be a number of causes for the harsh audio, filtering being one of them. The slope side of things needs fixing as the filters are pretty much straight sided right now which can cause some interesting effects (especially on CW) if another station comes up just on the edge of the filter.

> An almost infinite filtering capability versus $100 per crystal filter
> is to me a major feature of the digital era.
>
> Built up my 40 meter BPF board and now have signals around-the-clock.
> Heard my first SSB (DX here) it was quite good. I did not have the
> opportunity to check against my "analog rig" but while the signal was
> just noticeable on the display it was copyable. A testimony to Digital
> noise reduction(ANR). Also found that the notch filter to be quite
> effective when a CW signal appeared in the middle of the SSB signal.
> Barely noticeable.... Very appreciative that the notch is in the AGC loop.

The notching (and indeed the other DSP functions) needs looking at. To be honest, you can come up with a really good setting for ANR or ANF for SSB and they are useless on CW or vice versa.

These are things that I'm picking up as I go along - you have to remember I'm learning all this stuff too ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

148. Re: Suggestion - Do Not Require APPLY for Adjustments

Yahoo group: kgksdr
Date: 2006-01-11 20:58:51 UTC
From: Duncan Munro
Topic: 146 Message: 148

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> Hi Dick, a valid point there. It can be tedious to keep going into
> receiver options to apply little tweaks here and there. This will get
> moved around so 'day to day' functions are easy to access without
having
> to navigate through screens to do it.
>
> Adjustments for the DSP functions are one that springs to mind right
> now. It would be nice to be able to tweak the parameters by clicking a
> small button on the DSP panel, and listening to the effect in real
time.
> There are plenty of other items that fall into this category too.

Some work has now been carried out on this, and it's looking good.
There are some screenshots in the files area
http://groups.yahoo.com/group/kgksdr/files/Screenshots/

tweak_screen1.gif shows what happens when you right-click on the ANR
function. A box appears which allows the parameters to be changed and
these changes can be carried out on the fly.

tweak_screen2.gif shows the three available tweak screens open. They
have been moved onto the desktop to stop them blocking out the items
underneath them.

Calibration and Display options are likely to be the next candidates
for streamlining, although these are likely to appear as buttons on
the spectrum display.

73,

Duncan M0KGK

149. Re: Suggestion - Do Not Require APPLY for Adjustments

Yahoo group: kgksdr
Date: 2006-01-12 00:22:44 UTC
From: n3hkn
Topic: 146 Message: 149

I like the floating window. For those with restricted screen space (KGKSDR & PSK program as an example) the floating window is the most economical. Selection of the floater would be nice from a typical menu pulldown. The Operator could keep as many as are needed open. The problem is that there is no way to completely forecast how many adjustments may become available. The floating window allows individual management of the screen space. It is also a good idea to note the last location of these little windows for the next time. I can imagine a possible need for a prescribed set (selected from a menue) of these windows in remembered locations be a requirement.

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> > Hi Dick, a valid point there. It can be tedious to keep going into
> > receiver options to apply little tweaks here and there. This will
get
> > moved around so 'day to day' functions are easy to access without
> having
> > to navigate through screens to do it.
> >
> > Adjustments for the DSP functions are one that springs to mind right
> > now. It would be nice to be able to tweak the parameters by
clicking a
> > small button on the DSP panel, and listening to the effect in real
> time.
> > There are plenty of other items that fall into this category too.
>
> Some work has now been carried out on this, and it's looking good.
> There are some screenshots in the files area
> http://groups.yahoo.com/group/kgksdr/files/Screenshots/
>
> tweak_screen1.gif shows what happens when you right-click on the ANR
> function. A box appears which allows the parameters to be changed and
> these changes can be carried out on the fly.
>
> tweak_screen2.gif shows the three available tweak screens open. They
> have been moved onto the desktop to stop them blocking out the items
> underneath them.
>
> Calibration and Display options are likely to be the next candidates
> for streamlining, although these are likely to appear as buttons on
> the spectrum display.
>
> 73,

>
> Duncan M0KGK
>

150. Re: [kgksdr] Re: Suggestion - Do Not Require APPLY for Adjustments

Yahoo group: kgksdr
Date: 2006-01-12 00:58:45 UTC
From: Duncan Munro
Topic: 146 Message: 150

n3hkn wrote:
> I like the floating window. For those with restricted screen space
> (KGKSDR & PSK program as an example) the floating window is the most
> economical. Selection of the floater would be nice from a typical menu
> pulldown. The Operator could keep as many as are needed open. The
> problem is that there is no way to completely forecast how many
> adjustments may become available. The floating window allows
> individual management of the screen space. It is also a good idea to
> note the last location of these little windows for the next time. I
> can imagine a possible need for a prescribed set (selected from a
> menue) of these windows in remembered locations be a requirement.

Hi Dick, the floating windows have amnesia right now (it's all experimental I suppose), and will start up on the next session not being present so the "flower arranging" has to be done all over again.

I did see a graphics package once and can't remember which one, but it had a number of sub-screens on the right hand side in a column which you could expand or shrink the sub-screens as appropriate. That way, you could liven up the ones you wanted to see and waste the ones you didn't.

The concept was simple, it worked, and it stuck in my memory so there's a little clue as to where it might go in the future :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

151. Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 14:07:29 UTC
From: n3hkn
Topic: 151 Message: 151

I have been able to achieve 50db to 60db (by the display scale) of image rejection by "manually" using the auto-calibration. With no SDR antenna I applied a signal at various points in the bandpass allowing a sample to be taken at each. This seemed to produce better results than a random collection of samples, some of which may skew the results.

Question - is there a single value for the amplitude and another for the phase adjustment computed from the samples? Or, is there a frequency mapped set of amplitude and phase values created?

A manual adjustment of phase and amplitude adjustment would be nice to see if the auto routine is a better approach. I used the manual system on the Flex Radio SDR I owned and it seemed simple enough and was effective.

The 50db to 60db of image rejection was based upon injecting a signal to a specific amplitude and listening for the image. Once heard that was the rejection level. That level was not discernible on the display since it was ell within the noise.

Regards,
Dick N3HKN

152. Re: [kgksdr] Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 14:39:14 UTC
From: Duncan Munro
Topic: 151 Message: 152

> Question - is there a single value for the amplitude and another for
> the phase adjustment computed from the samples? Or, is there a
> frequency mapped set of amplitude and phase values created?

Hi Dick, it's not a single value for amplitude/phase, it's a curve (third order polynomial) which is created from frequency mapped points.

If you go into Options | Calibration, it will show you the collected points and also the curve that it is trying to put together to map the points.

--
Duncan Munro

153. Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 19:20:39 UTC
From: n3hkn
Topic: 151 Message: 153

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>
> > Question - is there a single value for the amplitude and another for
> > the phase adjustment computed from the samples? Or, is there a
> > frequency mapped set of amplitude and phase values created?
>
> Hi Dick, it's not a single value for amplitude/phase, it's a curve
> (third order polynomial) which is created from frequency mapped points.
>
> If you go into Options | Calibration, it will show you the collected
> points and also the curve that it is trying to put together to map the
> points.
>
> --
> Duncan Munro
>
Just to clarify - there is a 3rd order poly result for amplitude and
one for phase as calculated from the samples gathered as illustrated
in the displays.

Or, there are a series of values, one set for amplitude and onset for
phase spaced across the bandwidth. The distribution of values that
intersect the curve are the applied numbers.

The reason I ask is that a manual calibration (phase & amplitude)
produces a single set of two numbers, one for amplitude and one for
phase. These then apply across the complete audio bandwidth.

Thanks,
Dick N3HKN

154. Re: [kgksdr] Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 19:59:09 UTC
From: KD5NWA
Topic: 151 Message: 154

Do you only calibrate if the signal is nice and strong?

At 01:20 PM 1/12/2006, you wrote:
>--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
> >
> >
> > > Question - is there a single value for the amplitude and another for
> > > the phase adjustment computed from the samples? Or, is there a
> > > frequency mapped set of amplitude and phase values created?
> >
> > Hi Dick, it's not a single value for amplitude/phase, it's a curve
> > (third order polynomial) which is created from frequency mapped points.
> >
> > If you go into Options | Calibration, it will show you the collected
> > points and also the curve that it is trying to put together to map the
> > points.
> >
> > --
> > Duncan Munro
> >
>Just to clarify - there is a 3rd order poly result for amplitude and
>one for phase as calculated from the samples gathered as illustrated
>in the displays.
>
>Or, there are a series of values, one set for amplitude and onset for
>phase spaced across the bandwidth. The distribution of values that
>intersect the curve are the applied numbers.
>
>The reason I ask is that a manual calibration (phase & amplitude)
>produces a single set of two numbers, one for amplitude and one for
>phase. These then apply across the complete audio bandwidth.
>
>Thanks,
>Dick N3HKN
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>

>

Cecil Bayona
KD5NWA
www.qrpradio.com

I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ...

155. Re: [kgksdr] Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 19:49:55 UTC
From: Duncan Munro
Topic: 151 Message: 155

n3hkn wrote:
> --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
>>
>>>Question - is there a single value for the amplitude and another for
>>>the phase adjustment computed from the samples? Or, is there a
>>>frequency mapped set of amplitude and phase values created?
>>
>>Hi Dick, it's not a single value for amplitude/phase, it's a curve
>>(third order polynomial) which is created from frequency mapped points.
>>
>>If you go into Options | Calibration, it will show you the collected
>>points and also the curve that it is trying to put together to map the
>>points.
>>
>>--
>>Duncan Munro
>>
>
> Just to clarify - there is a 3rd order poly result for amplitude and
> one for phase as calculated from the samples gathered as illustrated
> in the displays.
>
> Or, there are a series of values, one set for amplitude and onset for
> phase spaced across the bandwidth. The distribution of values that
> intersect the curve are the applied numbers.
>
> The reason I ask is that a manual calibration (phase & amplitude)
> produces a single set of two numbers, one for amplitude and one for
> phase. These then apply across the complete audio bandwidth.

Hi Dick, what you are doing there is training the auto calibration at spot frequencies (there is no manual calibration just yet). If you get a flat line it sounds like you are in the second phase of automatic calibration.

It's the curve/line that determines the correction, it's the data points that determine what the curve/line looks like, and it's the distribution of points that determine the order of the polynomial.

I've clipped a re-post of my reply on 4th Jan which explains the phases it goes through (there are 5, not 4 as indicated in the preamble):

It goes through the following 4 phases depending on how far you are through the cycle:

(1) Applies 1:1 amplitude correction, and assumes the phases are 90 degrees apart. It does this when it doesn't have enough data to even guess what the amplitude and phase corrections should be, i.e. a "safe bet". With the SR40 this will result in images, the SR5 will generate larger images.

(2) Once it has enough points to get a rough idea of phase and amplitude, it will make a linear correction to phase and amplitude. This is a simple correction and gets you in the rough ball park, but will apply the same amount of amplitude or phase correction across the band. It's better than (1) but still needs improving.

(3) Once points have been gathered in both halves of the image, it will generate a first order polynomial. In English, this is a straight line but can be tipped up or down at one end. It's better than (2) and gets fairly close.

(4) If you divided the frequency span into four quadrants, and it has gathered sensible data from all four, it will generate a second order polynomial which will curve to fit the data. Again, better than (3).

(5) Is the icing on the cake, the third order polynomial once all 8 "8ths'" of the spectrum have good data.

--
Duncan Munro
http://www.m0kgk.co.uk/

156. Re: [kgksdr] Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 20:44:49 UTC
From: Duncan Munro
Topic: 151 Message: 156

KD5NWA wrote:
> Do you only calibrate if the signal is nice and strong?

Hi Cecil, yes is the short answer. There are two rules:

1. Signal must be >= 30dB above background noise level.

2. Signal must be larger than where the image is supposed to appear.
This prevents an image being calibrated against a real signal (i.e.
trying to preserve the image and cancel the main signal).

The rules are pretty tight, for example on 40m at night in the UK very
few calibration points are picked up.

--
Duncan Munro
http://www.m0kgk.co.uk/

157. Re: [kgksdr] Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-12 21:38:43 UTC
From: KD5NWA
Topic: 151 Message: 157

Thanks

At 02:44 PM 1/12/2006, you wrote:
>KD5NWA wrote:
> > Do you only calibrate if the signal is nice and strong?
>
>Hi Cecil, yes is the short answer. There are two rules:
>
>1. Signal must be >= 30dB above background noise level.
>
>2. Signal must be larger than where the image is supposed to appear.
>This prevents an image being calibrated against a real signal (i.e.
>trying to preserve the image and cancel the main signal).
>
>The rules are pretty tight, for example on 40m at night in the UK very
>few calibration points are picked up.
>
>--
>Duncan Munro
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>
>
>
>Yahoo! Groups Links
>
>
>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ...

158. Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-13 17:51:41 UTC
From: n3hkn
Topic: 151 Message: 158

I allowed KGKSDR to run for several hours on 40M this morning. There were over 6 million in the count. The image rejection showed that a -60db signal produced a -90db image with a noise level of -110DB. The third order polynomial was never reached.

I used the program called Rocky which also has an automatic calibration system. There I did not allot as much time but rather attempted to develop a calibration environment using only a signal from my TS-520S. The display of the point distribution shows the 4 areas of the spectrum that are setup to develop values for phase and amplitude correction within each of the sections. At least that is my interpretation. Proceeding on that assumption I placed a single signal in each of the four areas for a short period of time sufficient to register a "hit". After doing so, the image rejection of a signal 60db above the noise level did not produce a visual or audible image. It is also of interest that the plot of amplitude produced a distinct curve with the phase producing a lesser degree of curvature. KGKSDR in its results produced straight lines with some diagional slant. Possibly the lack of a curved display was attributable to not reaching the third order, or next to last, calculation.

The question that arises is there a need for a complex, and extended, automatic curve fit process to create some number of phase and amplitude values, or is a simple manual insertion of a strong carrier at specified points within the bandpass sufficient to achieve a reasonable auto-calibration of these functions across the bandpass? Certainly, it appears to me that a single calibration point is not adequate. Using the SDR program developed by I2PHD, shows that good image rejection is achievable but at some distance (in frequency) away from the test carrier the images reappear.

Admittedly the process used was strictly "amateur" in that I did not use a signals generator, a calibrated vertical DB scale, or any specific measure of the determination that an image was indeed either present or suppressed. Perhaps someone could perform some tests using more "respected" equipment to determine the extent of calculation needed to produce a functional, or usable in the Ham sense, calibration of phase and amplitude across a bandwidth of 48khz or more.

In the meantime it sure is fun to fiddle with the stuff. I am sure that all who have, and will, enjoy the SDR revolution offer a hearty thanks to those who develop the hardware and software that permits the average "Joe Ham" to experience SDR.

As a personal evaluation I find that Duncan's program offers many valuable, what I call, "electronic knobs". Hams love knobs!! My view

is that Duncan has provided not only excellent software but also bends over backwards to add or change the program and does so in a very timely manner. He says that he is just learning this stuff. Well, once he learns it we are in for a real treat!

Dick N3HKN

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
>
> Thanks
>
> At 02:44 PM 1/12/2006, you wrote:
> >KD5NWA wrote:
> > > Do you only calibrate if the signal is nice and strong?
> >
> >Hi Cecil, yes is the short answer. There are two rules:
> >
> >1. Signal must be >= 30dB above background noise level.
> >
> >2. Signal must be larger than where the image is supposed to appear.
> >This prevents an image being calibrated against a real signal (i.e.
> >trying to preserve the image and cancel the main signal).
> >
> >The rules are pretty tight, for example on 40m at night in the UK very
> >few calibration points are picked up.
> >
> >--
> >Duncan Munro
> >http://www.m0kgk.co.uk/
> >
> >
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> >Yahoo! Groups Links
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>
>
> Cecil Bayona
> KD5NWA
> www.qrpradio.com
>
> I fail to see why doing the same thing over and over and getting the
> same results every time is insanity: I've almost proved it isn't;
> only a few more tests now and I'm sure results will differ this time ...
>

159. Re: [kgksdr] Re: Calibration ??

Yahoo group: kgksdr
Date: 2006-01-13 19:40:43 UTC
From: Duncan Munro
Topic: 151 Message: 159

n3hkn wrote:

> [...] KGKSDR in its
> results produced straight lines with some diagional slant. Possibly
> the lack of a curved display was attributable to not reaching the
> third order, or next to last, calculation.

Hi Dick, this sounds about right if you are in four quadrants - you should have a first order polynomial which is the straight line that might be tipped up at one end, or a second order if there are enough points and they deviate sufficiently from a first order to make the second order a better choice.

> Certainly, it appears to me that a single calibration point is not
> adequate. Using the SDR program developed by I2PHD, shows that good
> image rejection is achievable but at some distance (in frequency) away
> from the test carrier the images reappear.

The tests I've done show that a single point cal can't cover the whole chunk of the band you're looking it. It is however, much better than having no cal at all.

> Admittedly the process used was strictly "amateur" in that I did not
> use a signals generator, a calibrated vertical DB scale, or any
> specific measure of the determination that an image was indeed either
> present or suppressed. Perhaps someone could perform some tests using
> more "respected" equipment to determine the extent of calculation
> needed to produce a functional, or usable in the Ham sense,
> calibration of phase and amplitude across a bandwidth of 48khz or more.

One thing you may want to watch out for is points in the extremes of the band. I haven't got the code up right now, but I'm sure there is about 2-4 kHz at the end which it can't get calibration points from. There's a bit in the middle which turns out to be useless too.

> As a personal evaluation I find that Duncan's program offers many
> valuable, what I call, "electronic knobs". Hams love knobs!! My view
> is that Duncan has provided not only excellent software but also bends
> over backwards to add or change the program and does so in a very
> timely manner. He says that he is just learning this stuff. Well, once
> he learns it we are in for a real treat!

Thanks! I will be looking at manual cal this weekend. Automatic is OK, but I don't think it's an optimal way of getting the best performance.

Another release should be out on Saturday or Sunday, the tweak screens will be on there for the DSP, the dBm meter option is *very* handy for

doing calibration stuff (it works on RMS power rather than voltage peaks). The help file will also get a writeup on why calibration is needed, how it works, and problems which can cause calibration give errors at certain parts of the band.

--
Duncan Munro
http://www.m0kgk.co.uk/

160. KGKSDR Build 26 released

Yahoo group: kgksdr
Date: 2006-01-16 01:10:10 UTC
From: Duncan Munro
Topic: 160 Message: 160

Build 26 has been released at:

http://www.m0kgk.co.uk/sdr/

I've included the previous version and will continue to do that in case anyone has problems with newer versions.

Key changes:

FIXED: Problem with calibration map not changing over when different frequency profile was selected.

ADDED: dBm facility on S meter, can be changed with Options -> Receiver -> Display. Also uses RMS power rather than peak measuring.

ADDED: "Tweak Screens" for DSP functions. Right-click on the DSP function e.g. ANR, and a screen opens up which allows the DSP parameters to be altered on the fly.

ADDED: Manual calibration facility. More info on this can be found from Help -> Contents -> Operating -> Manual calibration.

Not in the changes.txt file, but the help file has had some extra info put in for the parameters behind each of the DSP functions and a description of how they work.

73,

Duncan M0KGK

161. Re: [kgksdr] Re: [softrock40] Sound Card

Yahoo group: kgksdr
Date: 2006-01-16 18:31:30 UTC
From: Guido
Topic: 103 Message: 161

Duncan,

Tested with build 25 and my SoundBlaster Live, and the results were very good with "Delay Right by 1 sample" option. Did the sweep again, (a manual controlled signal generator, which has some leakage; this explained the RTTY signals). There was enough image rejection, think it is about 60db depending on point in the spectrum. Very happy this option, thanks again!

73 Guido

----- Original Message -----
From: "Duncan Munro" <m0kgk@...>
To: <kgksdr@yahoogroups.com>
Sent: Saturday, January 07, 2006 11:27 PM
Subject: Re: [kgksdr] Re: [softrock40] Sound Card

> Guido wrote:
> > Duncan,
> >
> > Forgot something:
> >
> > 4. Yes, it is a Creative Soundblaster Live! 24 bit
>
> Hi Guido, no need for any further tests or for me to buy a card as it
> looks like the recent changes may be successful :-)
>
> I don't know how you did the sweep, I'm guessing a signal generator
> which would explain the weak signals being received. KGKSDR did have
> some difficulty making an adjustment from the weak RTTY signals on
> there, but after some bodging I managed to get it to do it.
>
> There's a screen shot of your file with images now cancelled at:
>
> http://groups.yahoo.com/group/kgksdr/files/Screenshots/
>
> It's called guido.gif
>
> If you download Build 25 as posted here a little while back, then go to
> Options -> Receiver -> Hardware. In the dropdown that says Sampling,
> select "Delay Right by 1 sample".
>
> Now connect the antenna instead of a sig gen and using Options ->
> Receiver -> General, get the software to Collect Cal Data and Apply
> Calibrations. After a little while, it will "learn" and all the images
> will be gone :-D
>

> --
> Duncan Munro
> http://www.m0kgk.co.uk/

162. Manual CAL

Yahoo group: kgksdr
Date: 2006-01-16 19:01:11 UTC
From: N Munro
Topic: 162 Message: 162

Duncan,
That Manual CAL procedure in Build 26 is working very well. Recalibrated both the 40m and 20m BPF boards today and I'm getting between 60 and 80dB image rejection across both bands.

I started from scratch and cleared all the data previously collected. About 20 plots were taken on each band (approx. every 5kHz) with the signal generator set for about -40dBm. There is hardly any deviation from a nice smooth curve with the plots I've collected, and have now turned off data collection. What is not yet known is how long the data will remain valid.

I made no attempt to fine tune the rejection, relying solely on the "Guess" facility to optimise the settings. It's quite impressive to watch how it just "walks" the image down into the noise.
Now we need another RTTY contest weekend to prove it's as good as it looks :-)
73

Norman
GM4KGK

163. Re: [kgksdr] Manual CAL

Yahoo group: kgksdr
Date: 2006-01-16 20:57:58 UTC
From: Duncan Munro
Topic: 162 Message: 163

N Munro wrote:
> Duncan,
> That Manual CAL procedure in Build 26 is working very well. Recalibrated
> both the 40m and 20m BPF boards today and I'm getting between 60 and
> 80dB image rejection across both bands.
>
> I started from scratch and cleared all the data previously collected.
> About 20 plots were taken on each band (approx. every 5kHz) with the
> signal generator set for about -40dBm. There is hardly any deviation
> from a nice smooth curve with the plots I've collected, and have now
> turned off data collection. What is not yet known is how long the data
> will remain valid.

If you leave manual checked in the Options -> Receiver -> General screen, automatic collections should be greyed out (and it shouldn't do any).

I haven't tried combining a manually produced map with an automatically produced map, but in theory it should be possible and work correctly.

Data validity: If I get a chance later in the week, I'll write a little utility to take the cal maps and export them to .csv files for import into Excel in order to make the numbers more visible and make comparisons over a period of time. It will be interesting to see if manual calibration needs to change over a period of time due to temperature or other changes on the hardware.

> I made no attempt to fine tune the rejection, relying solely on the
> "Guess" facility to optimise the settings. It's quite impressive to
> watch how it just "walks" the image down into the noise.

To be honest, I tried manually improving on the Guess figures and invariably ended up making things worse.

I think the Guess routine could be a lot better in a number of ways, so just thinking how to improve on that.

> Now we need another RTTY contest weekend to prove it's as good as it
> looks :-)

BARTG Sprint on 28/29 January - that should turn up some strong RTTY signals :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

164. Re: Manual CAL

Yahoo group: kgksdr
Date: 2006-01-16 23:06:33 UTC
From: n3hkn
Topic: 162 Message: 164

I was able to achieve 60db rejection with 10 points clustered at the -10and +20khz areas. I figured that since I was not going to get a curve I would try to get the diagonals on a good average tilt. Two things are disconcerting. One is the resolution of the display at lo-zoom. Sometimes the amplitude of the signal appears to be lower at some points but this is only due to the display characteristics (1280x1024 LCD 19 inch). The S-meter shows a steady value. The other item is when you set a guess/calibration point and see the image continue to appear when you click ok. This is due to your latest value being "deflected" by previous nearby values. Eventually you get the consensus to keep the image low. The vanilla Guess, stopped manually, is the fastest and offers excellent results. The slower one seems to "overshoot" and sometimes not render the lowest value.

I do have about a 10db level difference from a low at the low freq end of 20m segment to the hi end. Maybe I missed a turn on a toroid.

If you look at Rocky it creates curves based upon "samples at hand" rather than requiring some distribution. Would this be a better way to go? Given the small number of points in a manual calibration the distribution required to use the third order curve polynomial will not be reached.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> N Munro wrote:
> > Duncan,
> > That Manual CAL procedure in Build 26 is working very well. Recalibrated
> > both the 40m and 20m BPF boards today and I'm getting between 60 and
> > 80dB image rejection across both bands.
> >
> > I started from scratch and cleared all the data previously collected.
> > About 20 plots were taken on each band (approx. every 5kHz) with the
> > signal generator set for about -40dBm. There is hardly any deviation
> > from a nice smooth curve with the plots I've collected, and have now
> > turned off data collection. What is not yet known is how long the data

> > will remain valid.
>
> If you leave manual checked in the Options -> Receiver -> General
> screen, automatic collections should be greyed out (and it
shouldn't do
> any).
>
> I haven't tried combining a manually produced map with an
automatically
> produced map, but in theory it should be possible and work
correctly.
>
> Data validity: If I get a chance later in the week, I'll write a
little
> utility to take the cal maps and export them to .csv files for
import
> into Excel in order to make the numbers more visible and make
> comparisons over a period of time. It will be interesting to see
if
> manual calibration needs to change over a period of time due to
> temperature or other changes on the hardware.
>
> > I made no attempt to fine tune the rejection, relying solely on
the
> > "Guess" facility to optimise the settings. It's quite impressive
to
> > watch how it just "walks" the image down into the noise.
>
> To be honest, I tried manually improving on the Guess figures and
> invariably ended up making things worse.
>
> I think the Guess routine could be a lot better in a number of
ways, so
> just thinking how to improve on that.
>
> > Now we need another RTTY contest weekend to prove it's as good as
it
> > looks :-)
>
> BARTG Sprint on 28/29 January - that should turn up some strong
RTTY
> signals :-)
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

165. Re: [kgksdr] Re: Manual CAL

Yahoo group: kgksdr
Date: 2006-01-16 23:58:00 UTC
From: Duncan Munro
Topic: 162 Message: 165

n3hkn wrote:

> [...] The slower one
> seems to "overshoot" and sometimes not render the lowest value.

I was wondering if I should take the slow one out as slow does not always mean "better". It does give good results if you have a sig gen with some amplitude or frequency modulation on it.

> I do have about a 10db level difference from a low at the low freq
> end of 20m segment to the hi end. Maybe I missed a turn on a toroid.
>
> If you look at Rocky it creates curves based upon "samples at hand"
> rather than requiring some distribution. Would this be a better way
> to go?

Don't forget you don't need a distribution just to get a simple correction (i.e. fixed phase/amplitude correction across the band). Build 26 now only requires 4 different points instead of the previous 10 to get some sort of correction in there. They can all be in pretty much the same place, opening up to give wider coverage allows the first/second/third order polynomials to be created.

> Given the small number of points in a manual calibration the
> distribution required to use the third order curve polynomial will
> not be reached.

If you can get a single point in each "eighth" of the band, a third order polynomial will result. My advice (for manual cal) would be to shoot for between 12 and 20 points across the band - this will provide a third order calibration with no problem.

--
Duncan Munro
http://www.m0kgk.co.uk/

166. Re: [kgksdr] Re: Manual CAL

Yahoo group: kgksdr
Date: 2006-01-17 00:16:40 UTC
From: Duncan Munro
Topic: 162 Message: 166

Duncan Munro wrote:

> If you can get a single point in each "eighth" of the band, a third
> order polynomial will result.

Sorry, I should have qualified that and said "a third order polynomial
will result unless it can do a better job with a lower order".

--
Duncan Munro
http://www.m0kgk.co.uk/

167. Getting To 3rd Order Polynomial??

Yahoo group: kgksdr
Date: 2006-01-17 21:42:56 UTC
From: n3hkn
Topic: 167 Message: 167

I deliberatly placed many points across the bandpass but was never able to see the 3rd order polynomial used. I noticed that the calibration display shows +&- 48khz. However, my Turtle Beach card, running at 96000hz only has a bandwidth of +&-24khz. Could it be that you need to have 8 segments populated with points be based upon a 96khz bandwidth so that 48khz is never able to populate the needed 8 segments of the bandpass?

Regards,
Dick

168. Re: [kgksdr] Getting To 3rd Order Polynomial??

Yahoo group: kgksdr
Date: 2006-01-17 23:45:29 UTC
From: Duncan Munro
Topic: 167 Message: 168

n3hkn wrote:
> I deliberatly placed many points across the bandpass but was never
> able to see the 3rd order polynomial used. I noticed that the
> calibration display shows +&- 48khz. However, my Turtle Beach card,
> running at 96000hz only has a bandwidth of +&-24khz. Could it be that
> you need to have 8 segments populated with points be based upon a
> 96khz bandwidth so that 48khz is never able to populate the needed 8
> segments of the bandpass?

Hi Dick, just to clarify - is the Turtle beach card giving you a display
of only +/- 24 kHz or is that the bandwidth of the card?

--
Duncan Munro
http://www.m0kgk.co.uk/

170. Re: Getting To 3rd Order Polynomial??

Yahoo group: kgksdr
Date: 2006-01-18 01:23:35 UTC
From: n3hkn
Topic: 167 Message: 170

The displayed bandwidth is +-24khz or 48khz total

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I deliberatly placed many points across the bandpass but was never
> > able to see the 3rd order polynomial used. I noticed that the
> > calibration display shows +&- 48khz. However, my Turtle Beach card,
> > running at 96000hz only has a bandwidth of +&-24khz. Could it be that
> > you need to have 8 segments populated with points be based upon a
> > 96khz bandwidth so that 48khz is never able to populate the needed 8
> > segments of the bandpass?
>
> Hi Dick, just to clarify - is the Turtle beach card giving you a
display
> of only +/- 24 kHz or is that the bandwidth of the card?
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

171. RE: [kgksdr] Manual CAL

Yahoo group: kgksdr
Date: 2006-01-18 16:11:20 UTC
From: Stan Rife
Topic: 162 Message: 171

Duncan, you and Norman must be brothers...same last name, same suffix on the call.....???????

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Monday, January 16, 2006 2:58 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Manual CAL

N Munro wrote:
> Duncan,
> That Manual CAL procedure in Build 26 is working very well. Recalibrated
> both the 40m and 20m BPF boards today and I'm getting between 60 and
> 80dB image rejection across both bands.
>
> I started from scratch and cleared all the data previously collected.
> About 20 plots were taken on each band (approx. every 5kHz) with the
> signal generator set for about -40dBm. There is hardly any deviation
> from a nice smooth curve with the plots I've collected, and have now
> turned off data collection. What is not yet known is how long the data
> will remain valid.

If you leave manual checked in the Options -> Receiver -> General screen, automatic collections should be greyed out (and it shouldn't do any).

I haven't tried combining a manually produced map with an automatically produced map, but in theory it should be possible and work correctly.

Data validity: If I get a chance later in the week, I'll write a little utility to take the cal maps and export them to .csv files for import into Excel in order to make the numbers more visible and make comparisons over a period of time. It will be interesting to see if manual calibration needs to change over a period of time due to temperature or other changes on the hardware.

> I made no attempt to fine tune the rejection, relying solely on the
> "Guess" facility to optimise the settings. It's quite impressive to
> watch how it just "walks" the image down into the noise.

To be honest, I tried manually improving on the Guess figures and invariably ended up making things worse.

I think the Guess routine could be a lot better in a number of ways, so just thinking how to improve on that.

> Now we need another RTTY contest weekend to prove it's as good as it
> looks :-)

BARTG Sprint on 28/29 January - that should turn up some strong RTTY signals :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

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-----

YAHOO! GROUPS LINKS

* Visit your group "kgksdr <http://groups.yahoo.com/group/kgksdr> "
on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

-----

172. Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-18 18:30:43 UTC
From: wb6ogd
Topic: 172 Message: 172

Hi Duncan,
I am new here, have had my V5 up for about a week now, want to say an extreme THANK YOU, your software and help is fantastic. I looked at several programs to start with, decided on yours and haven't had a need to look again at the others!!
I am using a Soundblaster Audigy 2 ZS notebook card. It seems to be working fine. As far as I can see, this is supposed to be a 24bit card, though some reviews say maybe not?? But in the setup window, 24bit is grayed out. I am using 96Khz 16bit now though 32bit is not grayed out and seems to give the same results. I am seeing and hearing signals +/-48Khz. Is this the way it should be working?
Gary WB6OGD

173. Re: [kgksdr] Manual CAL

Yahoo group: kgksdr
Date: 2006-01-18 19:54:01 UTC
From: Duncan Munro
Topic: 162 Message: 173

Stan Rife wrote:
> Duncan, you and Norman must be brothers...same last name, same
> suffix on the call.....???????

Hi Stan, not quite - KGK senior is my father so there is a family
connection after all :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

174. RE: [kgksdr] Manual CAL

Yahoo group: kgksdr
Date: 2006-01-18 20:44:52 UTC
From: Stan Rife
Topic: 162 Message: 174

Good deal, Duncan. I figured it was no coincidence. We can assume, then, that he will keep you in line over there? Hi Hi

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Wednesday, January 18, 2006 1:54 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Manual CAL

Stan Rife wrote:
> Duncan, you and Norman must be brothers...same last name, same
> suffix on the call.....???????

Hi Stan, not quite - KGK senior is my father so there is a family connection after all :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

YAHOO! GROUPS LINKS

* Visit your group "kgksdr <http://groups.yahoo.com/group/kgksdr> " on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

---

175. Re: [kgksdr] Re: Getting To 3rd Order Polynomial??

Yahoo group: kgksdr
Date: 2006-01-18 19:52:14 UTC
From: Duncan Munro
Topic: 167 Message: 175

n3hkn wrote:
> The displayed bandwidth is +-24khz or 48khz total

Hi Dick, if the display is showing +/- 24kHz when fully zoomed out then the card is sampling at 48kHz. The calibration screens should also show +/- 24kHz too.

Can you confirm what build you are using - there was an obscure problem before build 26 which could allow the wrong cal map to be picked up. This could result in the issues you mention.

--
Duncan Munro
http://www.m0kgk.co.uk/

176. Re: [kgksdr] Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-18 20:06:59 UTC
From: Duncan Munro
Topic: 172 Message: 176

wb6ogd wrote:
> Hi Duncan,
> I am new here, have had my V5 up for about a week now, want to say an
> extreme THANK YOU, your software and help is fantastic. I looked at
> several programs to start with, decided on yours and haven't had a
> need to look again at the others!!
> I am using a Soundblaster Audigy 2 ZS notebook card. It seems to be
> working fine. As far as I can see, this is supposed to be a 24bit
> card, though some reviews say maybe not?? But in the setup window,
> 24bit is grayed out. I am using 96Khz 16bit now though 32bit is not
> grayed out and seems to give the same results. I am seeing and
> hearing signals +/-48Khz. Is this the way it should be working?

Hi Gary, I took the 24 bit option off, the greying out of the option was deliberate for two reasons:

1. There was no code in KGKSDR to support it ;-)
2. I couldn't find any 24 bit cards that gave a genuine 24 bit output through the normal windows drivers (it always seems to be 32).

To summarise, for maximum performance choose 96kHz sample rate and 32 bit resolution. On the next release of KGKSDR, I will be removing the 24 bit option and the 32 bit will be renamed to 24/32 bit.

Thanks for the kind comments about the software by the way, although it is work in progress and does have ups and downs :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

177. Re: [kgksdr] Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-18 23:06:25 UTC
From: Guido
Topic: 172 Message: 177
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

178. Re: [kgksdr] Manual CAL

Yahoo group: kgksdr
Date: 2006-01-18 23:42:16 UTC
From: Duncan Munro
Topic: 162 Message: 178

Stan Rife wrote:
> Good deal, Duncan. I figured it was no coincidence. We can assume,
> then, that he will keep you in line over there? Hi Hi

You assume right ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

179. Re: [kgksdr] Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-18 23:41:34 UTC
From: Duncan Munro
Topic: 172 Message: 179

Guido wrote:
> Hi Duncan,
> Selecting 32 bits will say for my 24 bit SB Live card: Format not
> supported while opening soundcard for input.
> So I still using 16 bit. Is it internally processed with 32 bits?

Hi Guido, the info is processed internally with single precision floating point. That's 8 bit exponent, and 24 bits of mantissa, so the resolution is effectively 24 bits.

Can you let me know the model number of your card and I will go out and buy one to conduct further tests.

--
Duncan Munro
http://www.m0kgk.co.uk/

180. Re: Getting To 3rd Order Polynomial??

Yahoo group: kgksdr
Date: 2006-01-19 04:16:29 UTC
From: n3hkn
Topic: 167 Message: 180

Ah Ha! I was running the card at 96khz to get a nice zoom-out so I could see the entire bandwidth pluse some. I switched to 48khz and now the Calibration Maps are 48khz width. Of to calibrate....

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > The displayed bandwidth is +-24khz or 48khz total
>
> Hi Dick, if the display is showing +/- 24kHz when fully zoomed out then
> the card is sampling at 48kHz. The calibration screens should also
show
> +/- 24kHz too.
>
> Can you confirm what build you are using - there was an obscure problem
> before build 26 which could allow the wrong cal map to be picked up.
> This could result in the issues you mention.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

181. Re: [kgksdr] Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-19 20:59:40 UTC
From: Guido
Topic: 172 Message: 181
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

182. Re: [kgksdr] Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-19 21:26:33 UTC
From: Duncan Munro
Topic: 172 Message: 182

Guido wrote:
> Hi Duncan,
> Okay. It is a Sound Blaster Live! 24-bit, model number: SB0410, trade
> name: Creative Labs.
> On the board there are 3 line-out connectors and 1 linein/mic. It has a
> Createive chip CA0106-DAT.

Hi Guido, I have just ordered one. When it turns up I will plug it in
and see what needs doing to get max performance from it.

--
Duncan Munro
http://www.m0kgk.co.uk/

183. Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-20 23:56:51 UTC
From: n3hkn
Topic: 183 Message: 183

Well, I would like to see the ability to adjust the shape of filters - slope and rounded edges at the top.

A way to create and store filters would be nice as well.

A damping of the DBM meter and a max value bar. Both should be variable - damping and delay.

Leave the calibrate display visible while being able to adjust the calibration. Perhaps put the controls on the calibration display screen.

I would dearly like an SSB transmitter if hardware becomes available.

At 48khz setting my CPU (2.6ghz) is 1% so some room for "things".

If I can solder in a new AD9850 DDS chip (VERY close pins) I hope to try a VFO I have laying here.

Dick N3HKN

184. Re: [kgksdr] Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 01:22:24 UTC
From: Duncan Munro
Topic: 183 Message: 184

Hi Dick,

n3hkn wrote:
> Well, I would like to see the ability to adjust the shape of filters -
> slope and rounded edges at the top.

I have been doing some experiments on that front this evening, and not really getting the results I expected. The filters in there now are straight sided "brick wall" filters which work very nicely until you get a signal just of the edge of the filter (esp. on CW).

My attempts to put some slope on just made the effect worse. Clearly, I'm missing something here, or maybe the method of blending the blocks together is working better than expected. Either way, it needs a little more research...

> A way to create and store filters would be nice as well.]

OK - no problem with that. There's the custom filter and absolutely no reason why there should not be a custom filter bank in future.

> A damping of the DBM meter and a max value bar. Both should be
> variable - damping and delay.

My jury is out on that one. Some consideration was given to a peak value line (as on the S meter), but then it wouldn't really be dBm - it would would be dBm at a single point in time.

To be honest, it went on there solely for the manual calibration and even that has to average out over a second or two to get a sensible RMS reading. Maybe an average line would make more sense, let me know your thoughts on that one.

> Leave the calibrate display visible while being able to adjust the
> calibration. Perhaps put the controls on the calibration display screen.

That's a good idea. The whole issue of calibration, I'm sure, is something that is going to plague SDR for a considerable time to come because of the hardware technology behind it.

> I would dearly like an SSB transmitter if hardware becomes available.

Join the queue ;-)

If you have a look over on the Softrock group, Kees has posted some pictures recently of the building blocks for a SDR transceiver. Some of it is clearly work in progress, but it's obvious he has "all his ducks in a row" on this one. I'm watching it with real interest.

> At 48khz setting my CPU (2.6ghz) is 1% so some room for "things".

That sounds a little light.

There's 1200MHz and 2.6GHz Athlon machines here - the former is maxed out at 96kHz, the latter is doing about 43% CPU at 96kHz with the Delta 66. At lower sample rates they both breath a sigh of relief and the numbers drop appreciably.

> If I can solder in a new AD9850 DDS chip (VERY close pins) I hope to
> try a VFO I have laying here.

Good man - I'm getting to the point where the SMT IC's look a lot more fiddly than they should do. I'm after a DDS VFO and paying to have it made up simply because the SMT stuff really is not my game.

If it's not on an Octal base, etc. etc. ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

185. Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 01:47:02 UTC
From: n3hkn
Topic: 183 Message: 185

I agree on the meter - leave dbm alone...

On the filters - is the perceived "harsh" sound possibly due to the almost perfect knee of the filter? I have no idea as to the ability of the formulas, but it may be worth a try to "round" them off and forget the slopong sides. I doubt that any side slope would be very noticeable anyhow. That sharp transition from the flat top to the side seems a likely target.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Hi Dick,
>
> n3hkn wrote:
> > Well, I would like to see the ability to adjust the shape of filters -
> > slope and rounded edges at the top.
>
> I have been doing some experiments on that front this evening, and not
> really getting the results I expected. The filters in there now are
> straight sided "brick wall" filters which work very nicely until you
get
> a signal just of the edge of the filter (esp. on CW).
>
> My attempts to put some slope on just made the effect worse. Clearly,
> I'm missing something here, or maybe the method of blending the blocks
> together is working better than expected. Either way, it needs a
little
> more research...
>
> > A way to create and store filters would be nice as well.]
>
> OK - no problem with that. There's the custom filter and absolutely no
> reason why there should not be a custom filter bank in future.
>
> > A damping of the DBM meter and a max value bar. Both should be
> > variable - damping and delay.
>
> My jury is out on that one. Some consideration was given to a peak
> value line (as on the S meter), but then it wouldn't really be dBm - it
> would would be dBm at a single point in time.
>
> To be honest, it went on there solely for the manual calibration and
> even that has to average out over a second or two to get a sensible RMS
> reading. Maybe an average line would make more sense, let me know your

> thoughts on that one.
>
> > Leave the calibrate display visible while being able to adjust the
> > calibration. Perhaps put the controls on the calibration display
screen.
>
> That's a good idea. The whole issue of calibration, I'm sure, is
> something that is going to plague SDR for a considerable time to come
> because of the hardware technology behind it.
>
> > I would dearly like an SSB transmitter if hardware becomes available.
>
> Join the queue ;-)
>
> If you have a look over on the Softrock group, Kees has posted some
> pictures recently of the building blocks for a SDR transceiver.
Some of
> it is clearly work in progress, but it's obvious he has "all his ducks
> in a row" on this one. I'm watching it with real interest.
>
> > At 48khz setting my CPU (2.6ghz) is 1% so some room for "things".
>
> That sounds a little light.
>
> There's 1200MHz and 2.6GHz Athlon machines here - the former is maxed
> out at 96kHz, the latter is doing about 43% CPU at 96kHz with the Delta
> 66. At lower sample rates they both breath a sigh of relief and the
> numbers drop appreciably.
>
> > If I can solder in a new AD9850 DDS chip (VERY close pins) I hope to
> > try a VFO I have laying here.
>
> Good man - I'm getting to the point where the SMT IC's look a lot more
> fiddly than they should do. I'm after a DDS VFO and paying to have it
> made up simply because the SMT stuff really is not my game.
>
> If it's not on an Octal base, etc. etc. ;-)
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

186. Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 12:55:42 UTC
From: n3hkn
Topic: 183 Message: 186

One other option that MAY make sense is to allow the Options page to function without the apply button. By that I mean to allow the Options window to be open and see the results of adjustments as they occur without requiring the Apply key. I may have asked this before - apologies if so.

The rationale is that an old-fashioned radio reflects adjustments immediately as you turn the knobs. It would be nice if the SDR followed the same path.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
>
> I agree on the meter - leave dbm alone...
>
> On the filters - is the perceived "harsh" sound possibly due to the
> almost perfect knee of the filter? I have no idea as to the ability of
> the formulas, but it may be worth a try to "round" them off and forget
> the slopong sides. I doubt that any side slope would be very
> noticeable anyhow. That sharp transition from the flat top to the side
> seems a likely target.
>
> Dick N3HKN
>
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> >
> > Hi Dick,
> >
> > n3hkn wrote:
> > > Well, I would like to see the ability to adjust the shape of
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> > > slope and rounded edges at the top.
> >
> > I have been doing some experiments on that front this evening, and
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> > really getting the results I expected. The filters in there now are
> > straight sided "brick wall" filters which work very nicely until you
> get
> > a signal just of the edge of the filter (esp. on CW).
> >
> > My attempts to put some slope on just made the effect worse.
Clearly,

> > I'm missing something here, or maybe the method of blending the
blocks
> > together is working better than expected. Either way, it needs a
> little
> > more research...
> >
> > > A way to create and store filters would be nice as well.]
> >
> > OK - no problem with that. There's the custom filter and
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> > reason why there should not be a custom filter bank in future.
> >
> > > A damping of the DBM meter and a max value bar. Both should be
> > > variable - damping and delay.
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> > My jury is out on that one. Some consideration was given to a peak
> > value line (as on the S meter), but then it wouldn't really be dBm
- it
> > would would be dBm at a single point in time.
> >
> > To be honest, it went on there solely for the manual calibration and
> > even that has to average out over a second or two to get a
sensible RMS
> > reading. Maybe an average line would make more sense, let me know
your
> > thoughts on that one.
> >
> > > Leave the calibrate display visible while being able to adjust the
> > > calibration. Perhaps put the controls on the calibration display
> screen.
> >
> > That's a good idea. The whole issue of calibration, I'm sure, is
> > something that is going to plague SDR for a considerable time to come
> > because of the hardware technology behind it.
> >
> > > I would dearly like an SSB transmitter if hardware becomes
available.
> >
> > Join the queue ;-)
> >
> > If you have a look over on the Softrock group, Kees has posted some
> > pictures recently of the building blocks for a SDR transceiver.
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> > it is clearly work in progress, but it's obvious he has "all his
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> > > At 48khz setting my CPU (2.6ghz) is 1% so some room for "things".
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> > numbers drop appreciably.
> >
> > > If I can solder in a new AD9850 DDS chip (VERY close pins) I hope to
> > > try a VFO I have laying here.
> >
> > Good man - I'm getting to the point where the SMT IC's look a lot
more
> > fiddly than they should do. I'm after a DDS VFO and paying to
have it
> > made up simply because the SMT stuff really is not my game.
> >
> > If it's not on an Octal base, etc. etc. ;-)
> >
> > --
> > Duncan Munro
> > http://www.m0kgk.co.uk/
> >
>

187. Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 15:59:41 UTC
From: Duncan Munro
Topic: 183 Message: 187

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
>
>
> One other option that MAY make sense is to allow the Options page to
> function without the apply button. By that I mean to allow the Options
> window to be open and see the results of adjustments as they occur
> without requiring the Apply key. I may have asked this before -
> apologies if so.
>
> The rationale is that an old-fashioned radio reflects adjustments
> immediately as you turn the knobs. It would be nice if the SDR
> followed the same path.

Hi Dick, I'm following a policy now that anything requiring frequent adjustment should have instant response and be on the main screen. This has started by moving the DSP adjustments onto pop up 'tweak screens'.

Can you let me know which parameters on the options screens you need instant changes for?

73,

Duncan M0KGK

188. Re: Question on Soundblaster

Yahoo group: kgksdr
Date: 2006-01-21 17:17:18 UTC
From: Duncan Munro
Topic: 172 Message: 188

--- In kgksdr@yahoogroups.com, Guido <threeme3@g...> wrote:
>
> Hi Duncan,
> Okay. It is a Sound Blaster Live! 24-bit, model number: SB0410,
trade name:
> Creative Labs.
> On the board there are 3 line-out connectors and 1 linein/mic. It has a
> Createive chip CA0106-DAT.

Hi Guido, my SB Live! 24 turned up in the mail today and I have got it
up and running. I can confirm it's marked SB0410 on the sticky label
and the main chip is marked CA0106-DAT as your is.

KGKSDR has been modified to work with the 24 bit sampling of this
card, and an interim build with the changes is available at:

http://www.m0kgk.co.uk/sdr/

Just a general note: Unless you have the SB Live! 24, this build won't
offer you any extra goodies...!

Key changes are the 24 bit options have been livened up and the code
behind them implemented. The help file now includes some tips to get
the best out of this card which I have included at the bottom of this
message.

I'm going to do a bit of benchmarking on the card to see where it fits
in with other cards I have, but initial reactions are that the
performance (when correctly set up) is great for SDR work.

Here's the info from the help file:

This very popular PC card is great for games and general
audio. However, out of the box, it is almost unusable for
SDR. With a couple of simple tweaks it can be turned into
a star performer.

* In the Hardware options of KGKSDR shown above, set
Sampling to delay right by 1 sample if you have
difficulty getting rid of images.

* Go to the Creative Device Control application Start ->
Programs -> Creative -> Device Control. Adjust the
card capabilities to 96kHz and 24bit. Without this, you
won't get the full bandwidth of this card.

73,

Duncan M0KGK

189. Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 17:42:20 UTC
From: n3hkn
Topic: 183 Message: 189

I would vote for the DSP functions. Here you are looking for immediate results as you make adjustments.

The "frequencies" would benefit from a way (right click, etc.) on the main screen pull-down to bring up the frequency setup box. Again you are looking for immediate feedback on this one as well, but it is not usually needed once set.

I used the analogy of knobs for the "see it now" types of variables. The others are akin to the modern, behind the scenes, menu adjustments we see on contemporary (contemptible) radios. They can remain out of sight same as the current radios place them.

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@a...> wrote:
> >
> >
> > One other option that MAY make sense is to allow the Options page to
> > function without the apply button. By that I mean to allow the Options
> > window to be open and see the results of adjustments as they occur
> > without requiring the Apply key. I may have asked this before -
> > apologies if so.
> >
> > The rationale is that an old-fashioned radio reflects adjustments
> > immediately as you turn the knobs. It would be nice if the SDR
> > followed the same path.
>
> Hi Dick, I'm following a policy now that anything requiring frequent
> adjustment should have instant response and be on the main screen.
> This has started by moving the DSP adjustments onto pop up 'tweak
> screens'.
>
> Can you let me know which parameters on the options screens you need
> instant changes for?
>
> 73,
>
> Duncan M0KGK
>

190. Re: [kgksdr] Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 17:45:35 UTC
From: Duncan Munro
Topic: 183 Message: 190

n3hkn wrote:
> I would vote for the DSP functions. Here you are looking for immediate
> results as you make adjustments.

Hi Dick, you can do this now, just right click on any of ANR ANL ANF and
a screen will pop up which you make the adjustments on. The screen can
be dragged out of the way, indeed you can have all three open if you want.

--
Duncan Munro
http://www.m0kgk.co.uk/

191. Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 19:54:24 UTC
From: n3hkn
Topic: 183 Message: 191

I tried the Right-Click but could not find any "sweet spot" to create
a drag-able window??

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I would vote for the DSP functions. Here you are looking for immediate
> > results as you make adjustments.
>
> Hi Dick, you can do this now, just right click on any of ANR ANL ANF
and
> a screen will pop up which you make the adjustments on. The screen can
> be dragged out of the way, indeed you can have all three open if you
want.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

192. Re: [kgksdr] Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-21 21:30:09 UTC
From: Duncan Munro
Topic: 183 Message: 192

n3hkn wrote:
> I tried the Right-Click but could not find any "sweet spot" to create
> a drag-able window??

Hi Dick, you need to use build 26 or later which has this feature in.
Start up KGKSDR then right click on any of the three ANR/ANL/ANF and a
new window will appear.

--
Duncan Munro
http://www.m0kgk.co.uk/

193. RE: [kgksdr] Re: Now - What are the Next Goodies?

Yahoo group: kgksdr
Date: 2006-01-22 00:29:38 UTC
From: Stan Rife
Topic: 183 Message: 193

Works ok here, Dick.

Stan Rife
W5EWA
Houston, TX
K2 S/N 4216

-----Original Message-----
From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of
n3hkn
Sent: Saturday, January 21, 2006 1:54 PM
To: kgksdr@yahoogroups.com
Subject: [kgksdr] Re: Now - What are the Next Goodies?

I tried the Right-Click but could not find any "sweet spot" to create
a drag-able window??

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I would vote for the DSP functions. Here you are looking for immediate
> > results as you make adjustments.
>
> Hi Dick, you can do this now, just right click on any of ANR ANL ANF
and
> a screen will pop up which you make the adjustments on. The screen can
> be dragged out of the way, indeed you can have all three open if you
want.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

SPONSORED LINKS
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and
+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w
2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
and craft supply Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+c
raft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA> radio

---

YAHOO! GROUPS LINKS

* Visit your group "kgksdr <http://groups.yahoo.com/group/kgksdr> "
on the web.

* To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com
<mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

---

194. Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 01:46:33 UTC
From: Duncan Munro
Topic: 194 Message: 194

Since getting the SB Live! 24 today, I've had a closer look at the performance.

My earlier comment "initial reactions are that the performance (when correctly set up) is great for SDR work" seem to be underscored by the measurements I've been getting from it.

There's a page with some measurement charts at:

http://www.m0kgk.co.uk/soundcards.php

For the money, it's a bargain :-)

73,

Duncan M0KGK

195. Re: [kgksdr] Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 02:03:27 UTC
From: KD5NWA
Topic: 194 Message: 195

Bad link.

Or try, put the web site up first, then publish the link.

At 07:46 PM 1/21/2006, you wrote:
>Since getting the SB Live! 24 today, I've had a closer look at the
>performance.
>
>My earlier comment "initial reactions are that the performance (when
>correctly set up) is great for SDR work" seem to be underscored by the
>measurements I've been getting from it.
>
>There's a page with some measurement charts at:
>
> http://www.m0kgk.co.uk/soundcards.php
>
>For the money, it's a bargain :-)
>
>73,
>
>Duncan M0KGK
>
>
>
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>
>
>Yahoo! Groups Links
>
>
>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

196. Re: [kgksdr] Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 02:15:58 UTC
From: Duncan Munro
Topic: 194 Message: 196

KD5NWA wrote:
> Bad link.

http://www.m0kgk.co.uk/sdr/soundcards.php

> Or try, put the web site up first, then publish the link.

--
Duncan Munro
http://www.m0kgk.co.uk/

197. Re: [kgksdr] Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 02:28:27 UTC
From: KD5NWA
Topic: 194 Message: 197

I have a SB-24 and a SB Audigy 2, and the $26 SB-24 works better.

At 08:15 PM 1/21/2006, you wrote:
>KD5NWA wrote:
> > Bad link.
>
>http://www.m0kgk.co.uk/sdr/soundcards.php
>
> > Or try, put the web site up first, then publish the link.
>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/
>
>
>
>Yahoo! Groups Links
>
>
>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

198. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 15:18:44 UTC
From: nika01.rm
Topic: 194 Message: 198

Hello,

I have a SoundBlaster Live 24 bit External USB card. Just got
through downloading all the latest divers, etc, and from what I can
tell, it does not support 96 khz sampling.
Is your version an internal card ?

tnx

Phil AB8EO

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> Since getting the SB Live! 24 today, I've had a closer look at the
> performance.
>
> My earlier comment "initial reactions are that the performance
(when
> correctly set up) is great for SDR work" seem to be underscored by
the
> measurements I've been getting from it.
>
> There's a page with some measurement charts at:
>
> http://www.m0kgk.co.uk/soundcards.php
>
> For the money, it's a bargain :-)
>
> 73,
>
> Duncan M0KGK
>

199. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 15:45:18 UTC
From: Duncan Munro
Topic: 194 Message: 199

nika01.rm wrote:
> Hello,
>
> I have a SoundBlaster Live 24 bit External USB card. Just got
> through downloading all the latest divers, etc, and from what I can
> tell, it does not support 96 khz sampling.
> Is your version an internal card ?

Hi Phil, yes it's an internal PCI card.

I've just been having a look at the Live! 24 external on the Creative web page http://tinyurl.com/bqlmr I'm assuming this your model?

There's a caveat on the page about bit depths and sample rates when used in conjunction with the USB 1.1 interface. i.e., they're saying it can't do all the 'expensive' things at the same time because it won't fit within the bandwidth of the USB connection.

96kHz stereo 24 bit is a lot of Bits Per Second even before overheads get added on.

No harm in experimenting - you could try speaker output at 8000 Hz to reduce the bandwidth on the output side (KGKSDR has a decent resampler built in), try 96kHz/16 bit on the input.

If it gives a "Format not supported" message, there may be a control panel item you can select to get access to the higher samplerates.

If 96k/16 bit works and isn't coughing, try for 24 bit and see if that's OK.

--
Duncan Munro
http://www.m0kgk.co.uk/

200. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 16:03:40 UTC
From: nika01.rm
Topic: 194 Message: 200

Thank you for the information. I believe the issue is USB 1.1 . I
didnt realize it was from the stone age.

Phil AB8EO

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> nika01.rm wrote:
> > Hello,
> >
> > I have a SoundBlaster Live 24 bit External USB card. Just got
> > through downloading all the latest divers, etc, and from what I
can
> > tell, it does not support 96 khz sampling.
> > Is your version an internal card ?
>
> Hi Phil, yes it's an internal PCI card.
>
> I've just been having a look at the Live! 24 external on the
Creative
> web page http://tinyurl.com/bqlmr I'm assuming this your model?
>
> There's a caveat on the page about bit depths and sample rates
when used
> in conjunction with the USB 1.1 interface. i.e., they're saying
it
> can't do all the 'expensive' things at the same time because it
won't
> fit within the bandwidth of the USB connection.
>
> 96kHz stereo 24 bit is a lot of Bits Per Second even before
overheads
> get added on.
>
> No harm in experimenting - you could try speaker output at 8000 Hz
to
> reduce the bandwidth on the output side (KGKSDR has a decent
resampler
> built in), try 96kHz/16 bit on the input.
>
> If it gives a "Format not supported" message, there may be a
control
> panel item you can select to get access to the higher samplerates.
>
> If 96k/16 bit works and isn't coughing, try for 24 bit and see if

that's OK.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

201. AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-22 17:06:10 UTC
From: n3hkn
Topic: 201 Message: 201

I see periodic functioning by the AGC that is best described as "pumping". I have clicks that arrive at intervals with a result that the program almost seems like it is oscillationg as the noise level drops and rises in a fashion that comes close to turning the clicks into sine waves of audio. The clicks only occur infrequently but really mess up weak signals as the AGC reacts to them. The same events on my Kenwood TS-520 only produces brief changes in the audio.

I am no expert in AGC but it appears that the decay function on the 520 is quite rapid during the first third or half of the decay cycle then follows an exponential capacitor like discharge. There may also be an integration of AGC stimulating events such that clicks, or other periodic events, arriving within a time period, function as a single event to some degree.

Therefore, as you bring more adjustments in to realm of the user could some AGC adjustments also be made available. It would be interesting to play with attack and decay in various circumstances.

As the number of "adjustments" appear there becomes a need to store some of the settings. As an example a setup in CW may not work well in SSB. So storing some small number of scenarios would be nice for "some" adjustments.

Now, should you move to the next level. Here you not only store values for each adjustment, you also provide a storage that stores the values for several adjustments. As an example the user may find certain settings of ANR, AGC, and filtering are ideal for CW while other setting combinations are better for SSB. Thus you offer a series of "master" settings for SSB, CW, AM, etc. If there is more than one "master combination" set of values for SSB you could have SSB DX, SSB Local and SSB HI-FI. This is rather like one of the design meetings at a manufacturer of transceivers deciding what is relevant, cost effective, and fits.

Dick N3HKN

202. Re: [kgksdr] AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-22 17:19:46 UTC
From: Duncan Munro
Topic: 201 Message: 202

n3hkn wrote:
> I see periodic functioning by the AGC that is best described as
> "pumping". I have clicks that arrive at intervals with a result that
> the program almost seems like it is oscillationg as the noise level
> drops and rises in a fashion that comes close to turning the clicks
> into sine waves of audio. The clicks only occur infrequently but
> really mess up weak signals as the AGC reacts to them. The same events
> on my Kenwood TS-520 only produces brief changes in the audio.
> <snip a lot of good stuff>

Hi Dick, thanks for the comments. Are you getting this even with the
ANL function? I wrote it exactly because of the effects you describe,
the AGC was getting hit by spikes and was quite annoying.

It's normally very effective at getting rid of this particular problem.

--
Duncan Munro
http://www.m0kgk.co.uk/

203. Re: AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-22 17:29:24 UTC
From: n3hkn
Topic: 201 Message: 203

No, all functions off. I will run with ANL on to see how that works.

One other item - I still cannot get the tear-off tweak menus to appear with right-click on the DSP adjustments. My Windows XP/SP2 is fully up-to-date. It was installed 24 hours ago due to an unrelated printer driver issue. I am currently not running any addon security, or other backgraound programs. It is quite pristine. Do I need any Borland items??

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I see periodic functioning by the AGC that is best described as
> > "pumping". I have clicks that arrive at intervals with a result that
> > the program almost seems like it is oscillationg as the noise level
> > drops and rises in a fashion that comes close to turning the clicks
> > into sine waves of audio. The clicks only occur infrequently but
> > really mess up weak signals as the AGC reacts to them. The same events
> > on my Kenwood TS-520 only produces brief changes in the audio.
> > <snip a lot of good stuff>
>
> Hi Dick, thanks for the comments. Are you getting this even with the
> ANL function? I wrote it exactly because of the effects you describe,
> the AGC was getting hit by spikes and was quite annoying.
>
> It's normally very effective at getting rid of this particular problem.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

204. Re: [kgksdr] Re: AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-22 17:47:21 UTC
From: Duncan Munro
Topic: 201 Message: 204

n3hkn wrote:
> No, all functions off. I will run with ANL on to see how that works.
>
> One other item - I still cannot get the tear-off tweak menus to appear
> with right-click on the DSP adjustments. My Windows XP/SP2 is fully
> up-to-date. It was installed 24 hours ago due to an unrelated printer
> driver issue. I am currently not running any addon security, or other
> backgraound programs. It is quite pristine. Do I need any Borland items??

Hi Dick, what build of KGKSDR are you using? It's in the Help|About screen.

--
Duncan Munro
http://www.m0kgk.co.uk/

205. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-22 18:19:31 UTC
From: KD5NWA
Topic: 194 Message: 205

SB 24 Live External is perfectly capable of going 96KHz, it uses USB2 and is capable of using 480 Mb transfers if the USB connector on your PC supports USB2 High Speed.

If it's a desktop you can buy a USB2 high speed card for under $30 at Best Buys or similar outlet, if it's a laptop it will be a PMCIA card and will cost in the neighborhood of $50.

The sound card should not be plugged into a hub, it should go directly to a USB2 connector on the USB2 card otherwise a slow mouse or other device will mess up the transfers.

Overall unless you have no choice a PCI card performs better overall, high speed USB traffic from the sound card will take a high CPU usage when compared to a PCI card.

At 10:03 AM 1/22/2006, you wrote:

>Thank you for the information. I believe the issue is USB 1.1 . I
>didnt realize it was from the stone age.
>
>Phil AB8EO
>
>--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> >
> > nika01.rm wrote:
> > > Hello,
> > >
> > > I have a SoundBlaster Live 24 bit External USB card. Just got
> > > through downloading all the latest divers, etc, and from what I
>can
> > > tell, it does not support 96 khz sampling.
> > > Is your version an internal card ?
> >
> > Hi Phil, yes it's an internal PCI card.
> >
> > I've just been having a look at the Live! 24 external on the
>Creative
> > web page http://tinyurl.com/bqlmr I'm assuming this your model?
> >
> > There's a caveat on the page about bit depths and sample rates
>when used
> > in conjunction with the USB 1.1 interface. i.e., they're saying
>it
> > can't do all the 'expensive' things at the same time because it
>won't

> > fit within the bandwidth of the USB connection.
> >
> > 96kHz stereo 24 bit is a lot of Bits Per Second even before
>overheads
> > get added on.
> >
> > No harm in experimenting - you could try speaker output at 8000 Hz
>to
> > reduce the bandwidth on the output side (KGKSDR has a decent
>resampler
> > built in), try 96kHz/16 bit on the input.
> >
> > If it gives a "Format not supported" message, there may be a
>control
> > panel item you can select to get access to the higher samplerates.
> >
> > If 96k/16 bit works and isn't coughing, try for 24 bit and see if
>that's OK.
> >
> > --
> > Duncan Munro
> > http://www.m0kgk.co.uk/
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>Yahoo! Groups Links
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>

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

206. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 00:52:33 UTC
From: nika01.rm
Topic: 194 Message: 206

I copied this from the Creative web page for the Live! 24 bit external card:

"* Due to data transfer limitations of the USB 1.1 connection, it may not be possible to play back, record or simultaneously record and play back content at the highest bit rate and/or frequency supported. "

Also, all the drop downs in the device control program top out at 48 kc.

Maybe you have a newer version of the card ?

I dont pretend to be an expert about any of this. I am just as confused as the next guy. I do know, however, that there is a lot of myth and lore regarding suitable sound cards for SDR. One of the prevailing myths is that one needs an external sound card to avoid rfi of the pc. I dont know if this is true or not.

In any event, if you can tell me how to configure the Live! 24 bit external for use with SDR I would greatly appreciate it. I can select 96K and 24 bit from the M0KGK software and the radio will operate, but it is quite clear that the bandwidth is 48 kc, from the hump in the middle that is 48 kc wide.

Thanks,

Phil AB8EO

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
>
> SB 24 Live External is perfectly capable of going 96KHz, it uses USB2
> and is capable of using 480 Mb transfers if the USB connector on your
> PC supports USB2 High Speed.
>
> If it's a desktop you can buy a USB2 high speed card for under $30 at
> Best Buys or similar outlet, if it's a laptop it will be a PMCIA card
> and will cost in the neighborhood of $50.
>
> The sound card should not be plugged into a hub, it should go
> directly to a USB2 connector on the USB2 card otherwise a slow mouse
> or other device will mess up the transfers.

>
> Overall unless you have no choice a PCI card performs better
overall,
> high speed USB traffic from the sound card will take a high CPU
usage
> when compared to a PCI card.
>
>
> At 10:03 AM 1/22/2006, you wrote:
>
> >Thank you for the information. I believe the issue is USB 1.1 . I
> >didnt realize it was from the stone age.
> >
> >Phil AB8EO
> >
> >--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
> > >
> > > nika01.rm wrote:
> > > > Hello,
> > > >
> > > > I have a SoundBlaster Live 24 bit External USB card. Just got
> > > > through downloading all the latest divers, etc, and from
what I
> >can
> > > > tell, it does not support 96 khz sampling.
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> > >
> > > Hi Phil, yes it's an internal PCI card.
> > >
> > > I've just been having a look at the Live! 24 external on the
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> > > web page http://tinyurl.com/bqlmr I'm assuming this your
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> > >
> > > There's a caveat on the page about bit depths and sample rates
> >when used
> > > in conjunction with the USB 1.1 interface. i.e., they're
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> >it
> > > can't do all the 'expensive' things at the same time because it
> >won't
> > > fit within the bandwidth of the USB connection.
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> > > 96kHz stereo 24 bit is a lot of Bits Per Second even before
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> > > No harm in experimenting - you could try speaker output at
8000 Hz
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> > > reduce the bandwidth on the output side (KGKSDR has a decent
> >resampler
> > > built in), try 96kHz/16 bit on the input.
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> > > panel item you can select to get access to the higher
samplerates.
> > >
> > > If 96k/16 bit works and isn't coughing, try for 24 bit and see
if
> >that's OK.
> > >
> > > --
> > > Duncan Munro
> > > http://www.m0kgk.co.uk/
> > >
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> Cecil Bayona
> KD5NWA
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207. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 01:33:40 UTC
From: KD5NWA
Topic: 194 Message: 207

It' just saying that USB 1.1 cannot do the high speed modes of the card, in order to do the high speed modes you must have a USB 2.0 connector.

Think about it why would they put high resolution modes in the card if they cannot be used? They can, but USB 1.1 will not be able to provide them for you, it requires USB 2.0.

I have a Live 24bit External and it works fine with a USB 2.0 connection, I bought it years ago when they first came out.

At 06:52 PM 1/22/2006, you wrote:
>I copied this from the Creative web page for the Live! 24 bit
>external card:
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>"* Due to data transfer limitations of the USB 1.1 connection, it
>may not be possible to play back, record or simultaneously record
>and play back content at the highest bit rate and/or frequency
>supported. "
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>Also, all the drop downs in the device control program top out at 48
>kc.
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>Maybe you have a newer version of the card ?
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>I dont pretend to be an expert about any of this. I am just as
>confused as the next guy. I do know, however, that there is a lot of
>myth and lore regarding suitable sound cards for SDR. One of the
>prevailing myths is that one needs an external sound card to avoid
>rfi of the pc. I dont know if this is true or not.
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>In any event, if you can tell me how to configure the Live! 24 bit
>external for use with SDR I would greatly appreciate it. I can
>select 96K and 24 bit from the M0KGK software and the radio will
>operate, but it is quite clear that the bandwidth is 48 kc, from the
>hump in the middle that is 48 kc wide.
>
>Thanks,
>
>Phil AB8EO
>
>--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> >
> > SB 24 Live External is perfectly capable of going 96KHz, it uses
>USB2
> > and is capable of using 480 Mb transfers if the USB connector on

>your
> > PC supports USB2 High Speed.
> >
> > If it's a desktop you can buy a USB2 high speed card for under $30
>at
> > Best Buys or similar outlet, if it's a laptop it will be a PMCIA
>card
> > and will cost in the neighborhood of $50.
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> > The sound card should not be plugged into a hub, it should go
> > directly to a USB2 connector on the USB2 card otherwise a slow
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> > At 10:03 AM 1/22/2006, you wrote:
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> > >Phil AB8EO
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> > >--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
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> > > > nika01.rm wrote:
> > > > > Hello,
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> > > > > I have a SoundBlaster Live 24 bit External USB card. Just got
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> > > > Hi Phil, yes it's an internal PCI card.
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> > > > I've just been having a look at the Live! 24 external on the
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> > > > web page http://tinyurl.com/bqlmr I'm assuming this your
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> > > > There's a caveat on the page about bit depths and sample rates
> > >when used
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only a few more tests now and I'm sure results will differ this time ... "

208. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 02:00:41 UTC
From: nika01.rm
Topic: 194 Message: 208

Do you get 96 khz bandwidth with this card using the new version of
M0KGK software ?

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
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> It' just saying that USB 1.1 cannot do the high speed modes of the
> card, in order to do the high speed modes you must have a USB 2.0
connector.
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> Think about it why would they put high resolution modes in the
card
> if they cannot be used? They can, but USB 1.1 will not be able to
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> > > > > nika01.rm wrote:
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209. Re: AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-23 02:11:24 UTC
From: n3hkn
Topic: 201 Message: 209

I had 1.0.1.26 and now using 1.0.1.27. I get a menu (temporary type) -
Cut, Paste, Delete, Select etc...

Dick N3HKN

--- In kgksdr@...m, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > No, all functions off. I will run with ANL on to see how that works.
> >
> > One other item - I still cannot get the tear-off tweak menus to appear
> > with right-click on the DSP adjustments. My Windows XP/SP2 is fully
> > up-to-date. It was installed 24 hours ago due to an unrelated printer
> > driver issue. I am currently not running any addon security, or other
> > backgraound programs. It is quite pristine. Do I need any Borland
items??
>
> Hi Dick, what build of KGKSDR are you using? It's in the Help|About
screen.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

210. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 02:45:47 UTC
From: KD5NWA
Topic: 194 Message: 210

I have not tested the software with that card in over two weeks, at that time it would not display 192 KHz of spectrum, but that was a problem with the software.

I'm upgrading several of my PC's this weekend, the PC's in the shack are right now are a mess after HD upgrades, I'm in the process of re-installing the OS and the applications. It will be a day or two before it's all settled down and functional. If you can wait until then I give it a shot.

At 08:00 PM 1/22/2006, you wrote:

>Do you get 96 khz bandwidth with this card using the new version of
>M0KGK software ?
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211. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 03:00:53 UTC
From: nika01.rm
Topic: 194 Message: 211

Sounds good to me. I have plenty of other things to occupy my time
with.

Thanks,

Phil AB8EO

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
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> I have not tested the software with that card in over two weeks,
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> > > > > If it's a desktop you can buy a USB2 high speed card for
under
> >$30
> > > >at
> > > > > Best Buys or similar outlet, if it's a laptop it will be a
> >PMCIA
> > > >card
> > > > > and will cost in the neighborhood of $50.
> > > > >
> > > > > The sound card should not be plugged into a hub, it should
go
> > > > > directly to a USB2 connector on the USB2 card otherwise a
slow
> > > >mouse
> > > > > or other device will mess up the transfers.
> > > > >
> > > > > Overall unless you have no choice a PCI card performs
better
> > > >overall,
> > > > > high speed USB traffic from the sound card will take a
high CPU
> > > >usage
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> > > > >
> > > > >
> > > > > At 10:03 AM 1/22/2006, you wrote:
> > > > >
> > > > > >Thank you for the information. I believe the issue is USB
> >1.1 . I
> > > > > >didnt realize it was from the stone age.
> > > > > >
> > > > > >Phil AB8EO
> > > > > >
> > > > > >--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...>
> >wrote:
> > > > > > >
> > > > > > > nika01.rm wrote:
> > > > > > > > Hello,
> > > > > > > >
> > > > > > > > I have a SoundBlaster Live 24 bit External USB card.
> >Just got
> > > > > > > through downloading all the latest divers, etc, and
from
> > > >what I

> > > > > >can
> > > > > > > > > tell, it does not support 96 khz sampling.
> > > > > > > > > Is your version an internal card ?
> > > > > > > >
> > > > > > > > Hi Phil, yes it's an internal PCI card.
> > > > > > > >
> > > > > > > > I've just been having a look at the Live! 24 external
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> >the
> > > > > > >Creative
> > > > > > > > web page http://tinyurl.com/bqlmr I'm assuming this
your
> > > >model?
> > > > > > > >
> > > > > > > > There's a caveat on the page about bit depths and
sample
> >rates
> > > > > > >when used
> > > > > > > > in conjunction with the USB 1.1 interface. i.e.,
they're
> > > >saying
> > > > > > >it
> > > > > > > > can't do all the 'expensive' things at the same time
> >because it
> > > > > > >won't
> > > > > > > > fit within the bandwidth of the USB connection.
> > > > > > > >
> > > > > > > > 96kHz stereo 24 bit is a lot of Bits Per Second even
before
> > > > > > >overheads
> > > > > > > > get added on.
> > > > > > > >
> > > > > > > > No harm in experimenting - you could try speaker
output at
> > > >8000 Hz
> > > > > > >to
> > > > > > > > reduce the bandwidth on the output side (KGKSDR has a
> >decent
> > > > > > >resampler
> > > > > > > > built in), try 96kHz/16 bit on the input.
> > > > > > > >
> > > > > > > > If it gives a "Format not supported" message, there
may be
> >a
> > > > > > >control
> > > > > > > > panel item you can select to get access to the higher
> > > >samplerates.
> > > > > > > >
> > > > > > > > If 96k/16 bit works and isn't coughing, try for 24 bit
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> >see
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> > > > > >that's OK.
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> > > > > > > > http://www.m0kgk.co.uk/
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> > > > > > > KD5NWA
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> > > > > > "I fail to see why doing the same thing over and over and
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> only a few more tests now and I'm sure results will differ this
time ... "
>

212. Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 16:13:39 UTC
From: Des
Topic: 212 Message: 212

Hello to all on the list,

Just a few lines to introduce myself and to express my delight at finding the M0KGK SDR software. As far as I am aware this the only software which has the "Delay Right (or left) by 1 sample" option to support the Creative soundblaster product currently fitted to my PC. I have been experimenting with Various SDR software on-and-off for about a year now. I have so far used the following Software:

"SDRadio" by Alberto (I2PHD), "M0KGK SDR Decoder", "Rocky 1.41" by Alex Shovkoplyas, "DSP IF" by Vittorio ik2czl (this is a fixed tuned IF DSP package) and "Power SDR" though my PC was not fast enough for that one.

A kit of parts for a Softrock-V5 arrived at the weekend and was promptly assembled. Assembly of the kit went very well and the results are very pleasing. Many thanks top Tony Parks.

My PC is to some degree "speed challenged" with M0KGK SDR software showing about 95 to 100 % CPU usage but the software performs very well. The system is a Pentium-4 running at 1.3 GHz with 384 M/Byte RAM. The soundcard is a "Creative Soundblaster Live! 24 Bit" which samles at 96 kHz but for some reason the 24 bit option in the M0KGK SDR software is greyed out so I currently have to use the 16 bit option. But I see from todays postings that this issue has already been looked at.... wow! things sure happen fast on this list :-)

The software performs well on my old "clunker" of a PC and I particularly like the "User" option on the filters. The addition of the "manual I/Q calibration" is also a nice touch.

Lots of questions I should like to ask over the comming weeks but for now thanks to Duncan for sharing his software.

73 to all on the list,

Des (M0AYF)

213. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-23 16:29:02 UTC
From: KD5NWA
Topic: 194 Message: 213

The PC is alive and well, tonight I will add the USB sound card and test it.

At 08:00 PM 1/22/2006, you wrote:

>Do you get 96 khz bandwidth with this card using the new version of
>M0KGK software ?
>
>
>
>
>--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> >
> > It' just saying that USB 1.1 cannot do the high speed modes of the
> > card, in order to do the high speed modes you must have a USB 2.0
>connector.
> >
> > Think about it why would they put high resolution modes in the
>card
> > if they cannot be used? They can, but USB 1.1 will not be able to
> > provide them for you, it requires USB 2.0.
> >
> > I have a Live 24bit External and it works fine with a USB 2.0
> > connection, I bought it years ago when they first came out.
> >
> >
> > At 06:52 PM 1/22/2006, you wrote:
> > >I copied this from the Creative web page for the Live! 24 bit
> > >external card:
> > >
> > >
> > >"* Due to data transfer limitations of the USB 1.1 connection, it
> > >may not be possible to play back, record or simultaneously record
> > >and play back content at the highest bit rate and/or frequency
> > >supported. "
> > >
> > >Also, all the drop downs in the device control program top out at
>48
> > >kc.
> > >
> > >Maybe you have a newer version of the card ?
> > >
> > >I dont pretend to be an expert about any of this. I am just as
> > >confused as the next guy. I do know, however, that there is a lot
>of
> > >myth and lore regarding suitable sound cards for SDR. One of the

> > >prevailing myths is that one needs an external sound card to avoid
> > >rfi of the pc. I dont know if this is true or not.
> > >
> > >In any event, if you can tell me how to configure the Live! 24 bit
> > >external for use with SDR I would greatly appreciate it. I can
> > >select 96K and 24 bit from the M0KGK software and the radio will
> > >operate, but it is quite clear that the bandwidth is 48 kc, from
>the
> > >hump in the middle that is 48 kc wide.
> > >
> > >Thanks,
> > >
> > >Phil AB8EO
> > >
> > >--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> > > >
> > > > SB 24 Live External is perfectly capable of going 96KHz, it
>uses
> > >USB2
> > > > and is capable of using 480 Mb transfers if the USB connector
>on
> > >your
> > > > PC supports USB2 High Speed.
> > > >
> > > > If it's a desktop you can buy a USB2 high speed card for under
>$30
> > >at
> > > > Best Buys or similar outlet, if it's a laptop it will be a
>PMCIA
> > >card
> > > > and will cost in the neighborhood of $50.
> > > >
> > > > The sound card should not be plugged into a hub, it should go
> > > > directly to a USB2 connector on the USB2 card otherwise a slow
> > >mouse
> > > > or other device will mess up the transfers.
> > > >
> > > > Overall unless you have no choice a PCI card performs better
> > >overall,
> > > > high speed USB traffic from the sound card will take a high CPU
> > >usage
> > > > when compared to a PCI card.
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> > > > At 10:03 AM 1/22/2006, you wrote:
> > > >
> > > > >Thank you for the information. I believe the issue is USB
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>wrote:
> > > > > >
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> > > > > > > Hello,
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>Just got
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> > >what I
> > > > >can
> > > > > > > tell, it does not support 96 khz sampling.
> > > > > > > Is your version an internal card ?
> > > > > > >
> > > > > > Hi Phil, yes it's an internal PCI card.
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> > > > > > I've just been having a look at the Live! 24 external on
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> > > > >Creative
> > > > > > web page http://tinyurl.com/bqlmr I'm assuming this your
> >model?
> > > > > > >
> > > > > > There's a caveat on the page about bit depths and sample
>rates
> > > > >when used
> > > > > > in conjunction with the USB 1.1 interface. i.e., they're
> >saying
> > > > >it
> > > > > > can't do all the 'expensive' things at the same time
>because it
> > > > >won't
> > > > > > fit within the bandwidth of the USB connection.
> > > > > > >
> > > > > > 96kHz stereo 24 bit is a lot of Bits Per Second even before
> > > > >overheads
> > > > > > get added on.
> > > > > > >
> > > > > > No harm in experimenting - you could try speaker output at
> >8000 Hz
> > > > >to
> > > > > > reduce the bandwidth on the output side (KGKSDR has a
>decent
> > > > >resampler
> > > > > > built in), try 96kHz/16 bit on the input.
> > > > > > >
> > > > > > If it gives a "Format not supported" message, there may be
>a
> > > > >control

> > > > > > panel item you can select to get access to the higher
> > >samplerates.
> > > > > >
> > > > > > If 96k/16 bit works and isn't coughing, try for 24 bit and
>see
> > >if
> > > > >that's OK.
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> > > > "I fail to see why doing the same thing over and over and
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same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ...

214. Re: [kgksdr] Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 16:28:12 UTC
From: KD5NWA
Topic: 212 Message: 214

Try setting it to 32 bits, if the noise floor goes down, then it's reading 24 bits. Do pass the information back to the group.

95% to 100% seems rather high, I have a PC with the same card and it's a 1100MHz Athalon and it goes about 30% to 45%, but that was about two weeks ago. I will try to get it back together tonight and try it with the new software. With the built in card it uses about 10%, the use of USB takes it's toll.

At 10:13 AM 1/23/2006, you wrote:
>Hello to all on the list,
>
>
>Just a few lines to introduce myself and to express my delight at
>finding the M0KGK SDR software. As far as I am aware this the only
>software which has the "Delay Right (or left) by 1 sample" option to
>support the Creative soundblaster product currently fitted to my PC. I
>have been experimenting with Various SDR software on-and-off for about
>a year now. I have so far used the following Software:
>
>"SDRadio" by Alberto (I2PHD), "M0KGK SDR Decoder", "Rocky 1.41" by
>Alex Shovkoplyas, "DSP IF" by Vittorio ik2czl (this is a fixed tuned
>IF DSP package) and "Power SDR" though my PC was not fast enough for
>that one.
>
>A kit of parts for a Softrock-V5 arrived at the weekend and was
>promptly assembled. Assembly of the kit went very well and the results
>are very pleasing. Many thanks top Tony Parks.
>
>My PC is to some degree "speed challenged" with M0KGK SDR software
>showing about 95 to 100 % CPU usage but the software performs very
>well. The system is a Pentium-4 running at 1.3 GHz with 384 M/Byte
>RAM. The soundcard is a "Creative Soundblaster Live! 24 Bit" which
>samles at 96 kHz but for some reason the 24 bit option in the M0KGK
>SDR software is greyed out so I currently have to use the 16 bit
>option. But I see from todays postings that this issue has already
>been looked at.... wow! things sure happen fast on this list :-)
>
>The software performs well on my old "clunker" of a PC and I
>particularly like the "User" option on the filters. The addition of
>the "manual I/Q calibration" is also a nice touch.
>
>Lots of questions I should like to ask over the comming weeks but for
>now thanks to Duncan for sharing his software.
>

>73 to all on the list,
>
>Des (M0AYF)
>
>
>
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>Yahoo! Groups Links
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>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
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215. Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 17:30:06 UTC
From: Des
Topic: 212 Message: 215

Hello Cecil and the group,

Thanks for the reply. I just changed the setting to 32 bits as you advised. While this setting is not "greyed out" it does produce an error on selection. The error reads "Format not supported while opening soundcard for input" and stops the software from working until 16 bit is re-selected. I have double checked that the settings in Windows are for 24 Bit and 96 kHz sampling rate. Currently the sampling rate is not a problem and I see about 80 kHz of the 40 Mtr band centerd at 7.037250 Mhz (Xtal in the Softrock is marked as 7.040 MHz)

I also checked the CPU usage again using Windows "task manager" which confirms that it is the SDR software eating up all the CPU time. Other Windows related apps' are running in the background but are consuming very little (<5% total CPU overhead) so I will have to "play" with some of the settings and see if I can get it down a little.

By the way I am currently running ver 1.0.1.26 of the software, I understand from recent posts that a newer version is available which is intended to address issues with the Soundblaster 24 bit cards. At the time of writing Duncans server appears to be "down" but I will download and try the newer version as soon as I can and let the group know the results.

73,s

Des. (M0AYF)

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
>
> Try setting it to 32 bits, if the noise floor goes down, then it's
> reading 24 bits. Do pass the information back to the group.
>
> 95% to 100% seems rather high, I have a PC with the same card and
> it's a 1100MHz Athalon and it goes about 30% to 45%, but that was
> about two weeks ago. I will try to get it back together tonight and
> try it with the new software. With the built in card it uses about
> 10%, the use of USB takes it's toll.
>
> At 10:13 AM 1/23/2006, you wrote:
> >Hello to all on the list,
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> >Just a few lines to introduce myself and to express my delight at
> >finding the M0KGK SDR software. As far as I am aware this the only
> >software which has the "Delay Right (or left) by 1 sample" option to

> >support the Creative soundblaster product currently fitted to my PC. I
> >have been experimenting with Various SDR software on-and-off for about
> >a year now. I have so far used the following Software:
> >
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> >that one.
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> I fail to see why doing the same thing over and over and getting the
> same results every time is insanity: I've almost proved it isn't;
> only a few more tests now and I'm sure results will differ this time ...
>

216. Re: [kgksdr] Re: AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-23 19:45:30 UTC
From: Duncan Munro
Topic: 201 Message: 216

n3hkn wrote:
> I had 1.0.1.26 and now using 1.0.1.27. I get a menu (temporary type) -
> Cut, Paste, Delete, Select etc...

Hi Dick, it sounds like you are in one of the receiver options screens
rather than the main screen.

--
Duncan Munro
http://www.m0kgk.co.uk/

217. Re: [kgksdr] Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 20:03:43 UTC
From: Duncan Munro
Topic: 212 Message: 217

Hi Des, sorry - didn't see this message before sending last reply.

Des wrote:
> Thanks for the reply. I just changed the setting to 32 bits as you
> advised. While this setting is not "greyed out" it does produce an
> error on selection. The error reads "Format not supported while
> opening soundcard for input" and stops the software from working until
> 16 bit is re-selected.

This sounds about right, 32 bit works for cards like Delta 44 which
supply 32 bits to Windows, but won't work on the SB Live! 24 which will
forcibly reject a request for 32 bits.

> By the way I am currently running ver 1.0.1.26 of the software, I
> understand from recent posts that a newer version is available which
> is intended to address issues with the Soundblaster 24 bit cards. At
> the time of writing Duncans server appears to be "down" but I will
> download and try the newer version as soon as I can and let the group
> know the results.

Yup, while I was out at work today the power went off for a long time in
Witham. Both UPS boxes here had gone flat, and the web server which
should auto switch-on after power fail didn't (not sure why).

It's all up and running now, so help yourself to build 27 which will
allow you to make use of the 24 bit option.

--
Duncan Munro
http://www.m0kgk.co.uk/

218. Re: [kgksdr] Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 19:48:33 UTC
From: Duncan Munro
Topic: 212 Message: 218

Des wrote:
> My PC is to some degree "speed challenged" with M0KGK SDR software
> showing about 95 to 100 % CPU usage but the software performs very
> well. The system is a Pentium-4 running at 1.3 GHz with 384 M/Byte
> RAM. The soundcard is a "Creative Soundblaster Live! 24 Bit" which
> samles at 96 kHz but for some reason the 24 bit option in the M0KGK
> SDR software is greyed out so I currently have to use the 16 bit
> option. But I see from todays postings that this issue has already
> been looked at.... wow! things sure happen fast on this list :-)

Hi Des, thanks for the kind comments. Build 27 allows the 24 bit to
'come alive' so I think it's all pretty much sorted out on that front now.

There's also the utility at Start -> Programs -> Creative -> Device
Control which should be set to 24 bit and 96k to get the full performance.

--
Duncan Munro
http://www.m0kgk.co.uk/

219. Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 20:20:07 UTC
From: nika01.rm
Topic: 212 Message: 219

I dont see the follwing with my setup:

"> There's also the utility at Start -> Programs -> Creative ->
Device
> Control which should be set to 24 bit and 96k to get the full
performance."

Highest available is 48K. Still trying to sort out why this is. You
might look at the other posts from myself and KD5NWA.

I believe it is an issue with USB, as you suggested earlier. KD5NWA
is going to hook his external card up this evening and see what he
sees.

Phil AB8EO

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Des wrote:
> > My PC is to some degree "speed challenged" with M0KGK SDR
software
> > showing about 95 to 100 % CPU usage but the software performs
very
> > well. The system is a Pentium-4 running at 1.3 GHz with 384
M/Byte
> > RAM. The soundcard is a "Creative Soundblaster Live! 24 Bit"
which
> > samles at 96 kHz but for some reason the 24 bit option in the
M0KGK
> > SDR software is greyed out so I currently have to use the 16 bit
> > option. But I see from todays postings that this issue has
already
> > been looked at.... wow! things sure happen fast on this list :-)
>
> Hi Des, thanks for the kind comments. Build 27 allows the 24 bit
to
> 'come alive' so I think it's all pretty much sorted out on that
front now.
>
> There's also the utility at Start -> Programs -> Creative ->
Device
> Control which should be set to 24 bit and 96k to get the full
performance.
>
> --
> Duncan Munro

> http://www.m0kgk.co.uk/
>

220. Re: [kgksdr] Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 21:24:33 UTC
From: Duncan Munro
Topic: 212 Message: 220

KD5NWA wrote:
> Try setting it to 32 bits, if the noise floor goes down, then it's
> reading 24 bits. Do pass the information back to the group.
>
> 95% to 100% seems rather high, I have a PC with the same card and it's a
> 1100MHz Athalon and it goes about 30% to 45%, but that was about two
> weeks ago. I will try to get it back together tonight and try it with
> the new software. With the built in card it uses about 10%, the use of
> USB takes it's toll.

Hi Cecil, I'm using 1200MHz Athlon + 512MB for the dev machine and get
the following CPU results for SB Live! 24:

96kHz/24 bit: 78-81%
48kHz/24 bit: 34-37%

All using 48kHz/16 bit output, all DSP functions off, calibration
manual, apply calibration is off.

Are you sampling at 48k ???

--
Duncan Munro
http://www.m0kgk.co.uk/

221. Re: [kgksdr] Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 20:40:21 UTC
From: Duncan Munro
Topic: 212 Message: 221

nika01.rm wrote:
> I dont see the follwing with my setup:
>
> "> There's also the utility at Start -> Programs -> Creative ->
> Device
>
>>Control which should be set to 24 bit and 96k to get the full
>
> performance."
>
> Highest available is 48K. Still trying to sort out why this is. You
> might look at the other posts from myself and KD5NWA.
>
> I believe it is an issue with USB, as you suggested earlier. KD5NWA
> is going to hook his external card up this evening and see what he
> sees.

Hi Phil, I've been following the posts from yourself and Cecil, the
device control thing was in the followup to Des who I believe is using a
PCI card rather than USB.

--
Duncan Munro
http://www.m0kgk.co.uk/

222. Re: [kgksdr] Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-23 19:53:45 UTC
From: Duncan Munro
Topic: 212 Message: 222

KD5NWA wrote:
> Try setting it to 32 bits, if the noise floor goes down, then it's
> reading 24 bits. Do pass the information back to the group.
>
> 95% to 100% seems rather high, I have a PC with the same card and it's a
> 1100MHz Athalon and it goes about 30% to 45%, but that was about two
> weeks ago. I will try to get it back together tonight and try it with
> the new software. With the built in card it uses about 10%, the use of
> USB takes it's toll.

Hi Cecil, I'm using 1200MHz Athlon + 512MB for the dev machine and get
the following CPU results for SB Live! 24:

96kHz/24 bit: 78-81%
48kHz/24 bit: 34-37%

All using 48kHz/16 bit output, all DSP functions off, calibration
manual, apply calibration is off.

Are you sampling at 48k ???

--
Duncan Munro
http://www.m0kgk.co.uk/

223. Re: AGC- Attack/Delay

Yahoo group: kgksdr
Date: 2006-01-23 21:42:40 UTC
From: n3hkn
Topic: 201 Message: 223

Yep, I was clicking all over the Options screen. Found the menues.
LOOK GOOD & WORK WELL...
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> n3hkn wrote:
> > I had 1.0.1.26 and now using 1.0.1.27. I get a menu (temporary type) -
> > Cut, Paste, Delete, Select etc...
>
> Hi Dick, it sounds like you are in one of the receiver options screens
> rather than the main screen.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

224. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 01:18:09 UTC
From: KD5NWA
Topic: 194 Message: 224

I just tried it and it's gone up in CPU usage compared to older versions.

I get with 96KHz sampling 50% to 65% utilization, it does display +-
48KHz, my SR needs some component changes as is amplitude starts
going down at +- 20KHz but that is the Softrock not the software, it
does it with other software packages.

With 48KHz sampling at 24 bits I get between 30% and 43% utilization.

With 48KHz sampling at 16 bits I bet between 28% to 35% utilization

At 08:00 PM 1/22/2006, you wrote:

>Do you get 96 khz bandwidth with this card using the new version of
>M0KGK software ?
>
>
>
>
>--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> >
> > It' just saying that USB 1.1 cannot do the high speed modes of the
> > card, in order to do the high speed modes you must have a USB 2.0
>connector.
> >
> > Think about it why would they put high resolution modes in the
>card
> > if they cannot be used? They can, but USB 1.1 will not be able to
> > provide them for you, it requires USB 2.0.
> >
> > I have a Live 24bit External and it works fine with a USB 2.0
> > connection, I bought it years ago when they first came out.
> >
> >
> > At 06:52 PM 1/22/2006, you wrote:
> > >I copied this from the Creative web page for the Live! 24 bit
> > >external card:
> > >
> > >
> > >"* Due to data transfer limitations of the USB 1.1 connection, it
> > >may not be possible to play back, record or simultaneously record
> > >and play back content at the highest bit rate and/or frequency
> > >supported. "
> > >
> > >Also, all the drop downs in the device control program top out at
>48

> > >kc.
> > >
> > >Maybe you have a newer version of the card ?
> > >
> > >I dont pretend to be an expert about any of this. I am just as
> > >confused as the next guy. I do know, however, that there is a lot
>of
> > >myth and lore regarding suitable sound cards for SDR. One of the
> > >prevailing myths is that one needs an external sound card to avoid
> > >rfi of the pc. I dont know if this is true or not.
> > >
> > >In any event, if you can tell me how to configure the Live! 24 bit
> > >external for use with SDR I would greatly appreciate it. I can
> > >select 96K and 24 bit from the M0KGK software and the radio will
> > >operate, but it is quite clear that the bandwidth is 48 kc, from
>the
> > >hump in the middle that is 48 kc wide.
> > >
> > >Thanks,
> > >
> > >Phil AB8EO
> > >
> > >--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> > > >
> > > > SB 24 Live External is perfectly capable of going 96KHz, it
>uses
> > >USB2
> > > > and is capable of using 480 Mb transfers if the USB connector
>on
> > >your
> > > > PC supports USB2 High Speed.
> > > >
> > > > If it's a desktop you can buy a USB2 high speed card for under
>$30
> > >at
> > > > Best Buys or similar outlet, if it's a laptop it will be a
>PMCIA
> > >card
> > > > and will cost in the neighborhood of $50.
> > > >
> > > > The sound card should not be plugged into a hub, it should go
> > > > directly to a USB2 connector on the USB2 card otherwise a slow
> > >mouse
> > > > or other device will mess up the transfers.
> > > >
> > > > Overall unless you have no choice a PCI card performs better
> > >overall,
> > > > high speed USB traffic from the sound card will take a high CPU
> > >usage
> > > > when compared to a PCI card.

> > > >
> > > >
> > > > At 10:03 AM 1/22/2006, you wrote:
> > > >
> > > > >Thank you for the information. I believe the issue is USB
>1.1 . I
> > > > >didnt realize it was from the stone age.
> > > > >
> > > > >Phil AB8EO
> > > > >
> > > > >--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...>
>wrote:
> > > > > >
> > > > > > nika01.rm wrote:
> > > > > > > Hello,
> > > > > > >
> > > > > > > I have a SoundBlaster Live 24 bit External USB card.
>Just got
> > > > > > > through downloading all the latest divers, etc, and from
> > > >what I
> > > > > >can
> > > > > > > tell, it does not support 96 khz sampling.
> > > > > > > Is your version an internal card ?
> > > > > >
> > > > > > Hi Phil, yes it's an internal PCI card.
> > > > > >
> > > > > > I've just been having a look at the Live! 24 external on
>the
> > > > > >Creative
> > > > > > web page http://tinyurl.com/bqlmr I'm assuming this your
> > > >model?
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> > > > > > There's a caveat on the page about bit depths and sample
>rates
> > > > > >when used
> > > > > > in conjunction with the USB 1.1 interface. i.e., they're
> > > >saying
> > > > > >it
> > > > > > can't do all the 'expensive' things at the same time
>because it
> > > > > >won't
> > > > > > fit within the bandwidth of the USB connection.
> > > > > >
> > > > > > 96kHz stereo 24 bit is a lot of Bits Per Second even before
> > > > > >overheads
> > > > > > get added on.
> > > > > >
> > > > > > No harm in experimenting - you could try speaker output at
> > > >8000 Hz
> > > > > >to

> > > > > > reduce the bandwidth on the output side (KGKSDR has a
>decent
> > > > >resampler
> > > > > > built in), try 96kHz/16 bit on the input.
> > > > > >
> > > > > > If it gives a "Format not supported" message, there may be
>a
> > > > >control
> > > > > > panel item you can select to get access to the higher
> > >samplerates.
> > > > > >
> > > > > > If 96k/16 bit works and isn't coughing, try for 24 bit and
>see
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> > > > > > --
> > > > > > Duncan Munro
> > > > > > http://www.m0kgk.co.uk/
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> > > >
> > > > Cecil Bayona
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> > > > www.qrpradio.com
> > > >
> > > > "I fail to see why doing the same thing over and over and
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> > > > same results every time is insanity: I've almost proved it
>isn't;
> > > > only a few more tests now and I'm sure results will differ this
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"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

225. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 01:31:15 UTC
From: KD5NWA
Topic: 194 Message: 225

Additional readings and conditions:

I just tried it and it's gone up in CPU usage compared to older versions.

The readings here is with auto calibration data gathering and
applying calibration ;

With 96KHz sampling at 24 Bits I get between 50% to 65% utilization
With 48KHz sampling at 24 bits I get between 30% and 43% utilization.
With 48KHz sampling at 16 bits I bet between 28% to 35% utilization

The readings below is with calibration on manual;

96KHz sampling at 24 bits 48% to 56%
48 KHz sampling at 24 bits 29% to 35%
48 KHz sampling at 16 bits 28% to 33%

At 08:00 PM 1/22/2006, you wrote:

>Do you get 96 khz bandwidth with this card using the new version of
>M0KGK software ?
>
>
>
>
>--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> >
> > It' just saying that USB 1.1 cannot do the high speed modes of the
> > card, in order to do the high speed modes you must have a USB 2.0
>connector.
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> > Think about it why would they put high resolution modes in the
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> > if they cannot be used? They can, but USB 1.1 will not be able to
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> > I have a Live 24bit External and it works fine with a USB 2.0
> > connection, I bought it years ago when they first came out.
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> > At 06:52 PM 1/22/2006, you wrote:
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> > >may not be possible to play back, record or simultaneously record

> > >and play back content at the highest bit rate and/or frequency
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> > >Also, all the drop downs in the device control program top out at
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> > >Thanks,
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> > >Phil AB8EO
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> > >--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
> > > >
> > > > SB 24 Live External is perfectly capable of going 96KHz, it
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> > > > If it's a desktop you can buy a USB2 high speed card for under
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>PMCIA
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> > > > The sound card should not be plugged into a hub, it should go
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> > > > or other device will mess up the transfers.
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"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

226. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 01:34:15 UTC
From: nika01.rm
Topic: 194 Message: 226

Hmmm,

Sounds similar to what I see. I have tried to transmit a signal
outside of the +/- 20 kc bandwidth and I cant detect it. That lead
me to believe that I wasnt really sampling a full 96 khz.

Not sure what to make of this, but thanks for the info.

Phil AB8EO

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
>
> I just tried it and it's gone up in CPU usage compared to older
versions.
>
> I get with 96KHz sampling 50% to 65% utilization, it does display
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> > > Think about it why would they put high resolution modes in the

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> > > > > >--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...>
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227. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 01:44:08 UTC
From: KD5NWA
Topic: 194 Message: 227

The filters on the SR-4 and the SR-5 are set for +-24KHz if you want higher bandwidth you need to change some components. The capacitors in the QSD circuit need to be cut in half and the capacitor on the negative feedback of the op-amps need to be cut in half also. If you want 192KHz sampling then you change then to 1/4 their present sizes.

At 07:34 PM 1/23/2006, you wrote:

>Hmmm,
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>Sounds similar to what I see. I have tried to transmit a signal
>outside of the +/- 20 kc bandwidth and I cant detect it. That lead
>me to believe that I wasnt really sampling a full 96 khz.
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> > going down at +- 20KHz but that is the Softrock not the software,
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> > does it with other software packages.
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> > With 48KHz sampling at 24 bits I get between 30% and 43%
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> > At 08:00 PM 1/22/2006, you wrote:
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> > > > Think about it why would they put high resolution modes in the
> > >card
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>to
> > > > provide them for you, it requires USB 2.0.
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> > > > I have a Live 24bit External and it works fine with a USB 2.0
> > > > connection, I bought it years ago when they first came out.
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> > > > At 06:52 PM 1/22/2006, you wrote:
> > > > >I copied this from the Creative web page for the Live! 24 bit
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> > > > >Maybe you have a newer version of the card ?
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> > > > >In any event, if you can tell me how to configure the Live!
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228. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 01:56:25 UTC
From: nika01.rm
Topic: 194 Message: 228

Very interesting. I will give it a go. Thanks.

Phil AB8EO

--- In kgksdr@yahoogroups.com, KD5NWA <KD5NWA@c...> wrote:
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> > > > > > > > > >
> > > > > > > > > > If 96k/16 bit works and isn't coughing, try for 24
bit
> >and
> > > >see
> > > > > >if
> > > > > > > > >that's OK.
> > > > > > > > > >
> > > > > > > > > > --
> > > > > > > > > > Duncan Munro
> > > > > > > > > > http://www.m0kgk.co.uk/
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> > > > > > > > Cecil Bayona
> > > > > > > > KD5NWA
> > > > > > > > www.qrpradio.com
> > > > > > >
> > > > > > > > "I fail to see why doing the same thing over and over
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> > > > > > > > same results every time is insanity: I've almost
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> "I fail to see why doing the same thing over and over and getting
the
> same results every time is insanity: I've almost proved it isn't;
> only a few more tests now and I'm sure results will differ this
time ... "
>

229. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 09:13:51 UTC
From: Duncan Munro
Topic: 194 Message: 229

KD5NWA wrote:

> I get with 96KHz sampling 50% to 65% utilization, it does display +-
> 48KHz, my SR needs some component changes as is amplitude starts
> going down at +- 20KHz but that is the Softrock not the software, it
> does it with other software packages.

Hi Cecil, thanks for the info although I'm concerned at your drop at 20k. My SR40 doesn't drop off at 20k (or even 40k) and has the standard component values. Don't know about the SR5 because it's not built yet (waiting for a DDS to finish it off).

Some questions: Is the drop fairly sudden at 20-22k, or is it gradual from 20-~45k? With the SR disconnected from the soundcard and just sampling the soundcard quantization and preamp noise, is that bandwidth limited, or are you getting the full 96k chunk of the band?

I've put a couple of screen dumps of the noise (SR disconnected) at http://groups.yahoo.com/group/kgksdr/files/Screenshots/

cecil1.gif shows the spectrum display when the internal SB is deliberately limiting the bus bandwidth for the PC card. Windows KMixer is providing 96k samplerate to KGKSDR, but the SB WDM driver is only providing samples at 48k to KMixer which it then upsamples to meet the request for the higher samplerate from KGKSDR.

cecil2.gif shows the spectrum when the bandwidth limiting has been turned off.

--
Duncan Munro
http://www.m0kgk.co.uk/

230. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 13:14:53 UTC
From: KD5NWA
Topic: 194 Message: 230

It's like picture #1 except it's flat at the top.

Where is the setting to force it sample at 96KHz?

On mine the drop starts at 20KHz then about 24-25KHz it takes a steep dive.

Another funny thing, I just put it an Delta-44 in a new PC, and it
won't let me select 24 bit, it says it's not allowed for input mode.

I've set the Delta-44 to be the default audio device and used port
1/2 for input.

If I select 192KHz it runs at 70% to 95% but it displays nothing on
the spectrum window.

I can't tell you about audio, I'm in the process of setting this PC
in the shack and it doesn't have speakers yet.

At 03:13 AM 1/24/2006, you wrote:

>KD5NWA wrote:
>
> > I get with 96KHz sampling 50% to 65% utilization, it does display +-
> > 48KHz, my SR needs some component changes as is amplitude starts
> > going down at +- 20KHz but that is the Softrock not the software, it
> > does it with other software packages.
>
>Hi Cecil, thanks for the info although I'm concerned at your drop at
>20k. My SR40 doesn't drop off at 20k (or even 40k) and has the standard
>component values. Don't know about the SR5 because it's not built yet
>(waiting for a DDS to finish it off).
>
>Some questions: Is the drop fairly sudden at 20-22k, or is it gradual
>from 20-~45k? With the SR disconnected from the soundcard and just
>sampling the soundcard quantization and preamp noise, is that bandwidth
>limited, or are you getting the full 96k chunk of the band?
>
>I've put a couple of screen dumps of the noise (SR disconnected) at
>http://groups.yahoo.com/group/kgksdr/files/Screenshots/
>
>cecil1.gif shows the spectrum display when the internal SB is
>deliberately limiting the bus bandwidth for the PC card. Windows KMixer
>is providing 96k samplerate to KGKSDR, but the SB WDM driver is only
>providing samples at 48k to KMixer which it then upsamples to meet the
>request for the higher samplerate from KGKSDR.
>
>cecil2.gif shows the spectrum when the bandwidth limiting has been

>turned off.
>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/
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>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.22/238 - Release Date: 1/23/2006
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>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 267.14.22/238 - Release Date: 1/23/2006

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 267.14.22/238 - Release Date: 1/23/2006

231. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 13:31:29 UTC
From: KD5NWA
Topic: 194 Message: 231

If I select 32 bit drivers it doesn't complain, and the CPU usage goes down to 18% to 25% with calibration off, same conditions and 16 bit sampling you get 12% to 20% but occasionally it goes to 30%

I've noticed with this software when it first starts out the usage of the CPU is high then after a few seconds it starts coming down, it's always done this so I assume it's normal.

As far as the capacitor values that advice was mentioned by the designer that the SR-4, and SR-5 audio output on some units starts cutting off at around 24KHz and the capacitors need to be lowered in value to get full bandwidth.

I notice on the Delta that the spurs are way down, tonight I will try hooking up the SR and a set of speakers.

At 03:13 AM 1/24/2006, you wrote:

>KD5NWA wrote:
>
> > I get with 96KHz sampling 50% to 65% utilization, it does display +-
> > 48KHz, my SR needs some component changes as is amplitude starts
> > going down at +- 20KHz but that is the Softrock not the software, it
> > does it with other software packages.
>
>Hi Cecil, thanks for the info although I'm concerned at your drop at
>20k. My SR40 doesn't drop off at 20k (or even 40k) and has the standard
>component values. Don't know about the SR5 because it's not built yet
>(waiting for a DDS to finish it off).
>
>Some questions: Is the drop fairly sudden at 20-22k, or is it gradual
>from 20-~45k? With the SR disconnected from the soundcard and just
>sampling the soundcard quantization and preamp noise, is that bandwidth
>limited, or are you getting the full 96k chunk of the band?
>
>I've put a couple of screen dumps of the noise (SR disconnected) at
>http://groups.yahoo.com/group/kgksdr/files/Screenshots/
>
>cecil1.gif shows the spectrum display when the internal SB is
>deliberately limiting the bus bandwidth for the PC card. Windows KMixer
>is providing 96k samplerate to KGKSDR, but the SB WDM driver is only
>providing samples at 48k to KMixer which it then upsamples to meet the
>request for the higher samplerate from KGKSDR.
>
>cecil2.gif shows the spectrum when the bandwidth limiting has been
>turned off.

>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/
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>Yahoo! Groups Links
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Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 267.14.22/238 - Release Date: 1/23/2006

232. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 13:40:30 UTC
From: Duncan Munro
Topic: 194 Message: 232

> It's like picture #1 except it's flat at the top.

OK, that suggests the card is only sampling at 48 and KMixer is meeting the request for 96 by upsampling, sounds like the card may be causing the problem rather than the Softrock.

> Where is the setting to force it sample at 96KHz?

On the PCI version it's in the Creative Device Control, not sure about the USB cards. I downloaded the manual for the USB device last night and it does make reference to Device Control app, although I note Phil doesn't see the DC application on his USB equipped machine.

The real problem here might just be bandwidth on the USB, the manual gives a bit more info than the website regarding what will go and what won't, but it specifically says "no" on the subject of trying to do 96k and 24 bits at the same time.

> Another funny thing, I just put it an Delta-44 in a new PC, and it
> won't let me select 24 bit, it says it's not allowed for input mode.

The Delta-44 through Windows KMixer will ironically will let you pick any bit depth you want EXCEPT 24. I know this doesn't make any sense at all, but the card provides a 32 bit sample size only to KMixer which will happily drop down to 16 and 8, but not 24.

If you want to use the Delta-44 or 66, select 32 bits and it will work the full bit depth of the card. If you get a "format not supported" error on 32 bit, it may be really old drivers - I've seen this a couple of times before.

> I can't tell you about audio, I'm in the process of setting this PC
> in the shack and it doesn't have speakers yet.

--
Duncan Munro

233. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 13:48:25 UTC
From: Duncan Munro
Topic: 194 Message: 233

> I've noticed with this software when it first starts out the usage of
> the CPU is high then after a few seconds it starts coming down, it's
> always done this so I assume it's normal.

Hi Cecil, yes this is normal. The reason is that the buffers are built up before any output takes place, and the RX works at 100% to do it. After this is settles down, should stabilise within about 2-3 seconds.

--
Duncan Munro

234. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 14:16:57 UTC
From: nika01.rm
Topic: 194 Message: 234

I do see the Direct Control application, but it maxs out at 48kc.

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> > It's like picture #1 except it's flat at the top.
>
> OK, that suggests the card is only sampling at 48 and KMixer is
meeting
> the request for 96 by upsampling, sounds like the card may be
causing
> the problem rather than the Softrock.
>
> > Where is the setting to force it sample at 96KHz?
>
> On the PCI version it's in the Creative Device Control, not sure
about
> the USB cards. I downloaded the manual for the USB device last
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> and it does make reference to Device Control app, although I note
Phil
> doesn't see the DC application on his USB equipped machine.
>
> The real problem here might just be bandwidth on the USB, the
manual
> gives a bit more info than the website regarding what will go and
what
> won't, but it specifically says "no" on the subject of trying to
do 96k
> and 24 bits at the same time.
>
> > Another funny thing, I just put it an Delta-44 in a new PC, and
it
> > won't let me select 24 bit, it says it's not allowed for input
mode.
>
> The Delta-44 through Windows KMixer will ironically will let you
pick
> any bit depth you want EXCEPT 24. I know this doesn't make any
sense
> at all, but the card provides a 32 bit sample size only to KMixer
which
> will happily drop down to 16 and 8, but not 24.
>
> If you want to use the Delta-44 or 66, select 32 bits and it will
work

> the full bit depth of the card. If you get a "format not
supported"
> error on 32 bit, it may be really old drivers - I've seen this a
couple
> of times before.
>
> > I can't tell you about audio, I'm in the process of setting this
PC
> > in the shack and it doesn't have speakers yet.
>
> --
> Duncan Munro
>

235. Re: [kgksdr] Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 14:48:34 UTC
From: Duncan Munro
Topic: 194 Message: 235

> I do see the Direct Control application, but it maxs out at 48kc.

Is there a bit depth option on there, i.e. 8/16/24? If there is and you drop this down to say 8 bit for example, will it then allow 96k samplerate?

--
Duncan Munro

236. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-24 15:08:09 UTC
From: nika01.rm
Topic: 194 Message: 236

I will check when I get home, however, I believe I played with all the drop downs in an attempt to get 96 khz rate....and couldnt get there.

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> > I do see the Direct Control application, but it maxs out at 48kc.
>
> Is there a bit depth option on there, i.e. 8/16/24? If there is and
> you drop this down to say 8 bit for example, will it then allow 96k
> samplerate?
>
> --
> Duncan Munro
>

237. Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-24 20:18:16 UTC
From: Des
Topic: 212 Message: 237

Hi Duncan,

Thanks for the response to my posting. Glad to see the servers up-and-running again, I downloaded the revised version of KDKSDR and am pleased to report the 24 Bit option is no longer "greyed out" and upon selection of 24 Bit I no longer get the the dreaded "Format not supported while opening soundcard for input" error.

While downloading the software I took a look at the graphs you plotted for various sound cards, it seems the Soundblaster 24 Bit scores quite well and as you said, appears to be good value for money. Talking of sound cards I see I neglected to mention in my previous posting that I am indeed using a PCI version of the Soundblaster as you correctly guessed. To be honest I had no idea USB soundcards existed :-)

On the speaker output I use the 16 Bit option which seems fine. Now the 24 Bit option is present I decided to give it a go for the output but the dreaded "Format not supported while opening soundcard for output" error popped up. This causes no problems performance seems more than good enough with the 16 Bit option selected but I thought I would give the group the feedback.

I have been using the "ANR" function extensively on both "live" signals and replayed I/Q signals. The results are very impressive, my location is very noisey (much of which is from my own P.C.) so this feature is very welcome.

Thanks for supporting the Soundblaster 24 Bit cards :-)

Regards to all on the list.

Des (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Hi Des, sorry - didn't see this message before sending last reply.
>
> Des wrote:
> > Thanks for the reply. I just changed the setting to 32 bits as you
> > advised. While this setting is not "greyed out" it does produce an
> > error on selection. The error reads "Format not supported while
> > opening soundcard for input" and stops the software from working until
> > 16 bit is re-selected.
>
> This sounds about right, 32 bit works for cards like Delta 44 which
> supply 32 bits to Windows, but won't work on the SB Live! 24 which will

> forcibly reject a request for 32 bits.
>
> > By the way I am currently running ver 1.0.1.26 of the software, I
> > understand from recent posts that a newer version is available which
> > is intended to address issues with the Soundblaster 24 bit cards. At
> > the time of writing Duncans server appears to be "down" but I will
> > download and try the newer version as soon as I can and let the group
> > know the results.
>
> Yup, while I was out at work today the power went off for a long
time in
> Witham. Both UPS boxes here had gone flat, and the web server which
> should auto switch-on after power fail didn't (not sure why).
>
> It's all up and running now, so help yourself to build 27 which will
> allow you to make use of the 24 bit option.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

238. Re: [kgksdr] Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-24 22:00:58 UTC
From: Duncan Munro
Topic: 212 Message: 238

Des wrote:
> On the speaker output I use the 16 Bit option which seems fine. Now
> the 24 Bit option is present I decided to give it a go for the output
> but the dreaded "Format not supported while opening soundcard for
> output" error popped up. This causes no problems performance seems
> more than good enough with the 16 Bit option selected but I thought I
> would give the group the feedback.

Hi Des, to be honest I had never given this much thought as I normally leave the output on 16 bits seeing as it's CD quality anyway. I've just tried it and 8/16 work OK but it won't play the game on 24 bits at all.

I'm fairly sure it should be able to take a request for 24 or even 32 bits for output, and will do some further research...

--
Duncan Munro
http://www.m0kgk.co.uk/

239. Re: Soundblaster cards - performance

Yahoo group: kgksdr
Date: 2006-01-25 00:55:15 UTC
From: nika01.rm
Topic: 194 Message: 239

I can only manage 48 KC on the direct control program. I have frittered away 20 bucks worth of time fooling around with this issue, and I think I will just go buy the internal Live! 24 card to see what happens.

Phil AB8EO

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> > I do see the Direct Control application, but it maxs out at 48kc.
>
> Is there a bit depth option on there, i.e. 8/16/24? If there is and
> you drop this down to say 8 bit for example, will it then allow 96k
> samplerate?
>
> --
> Duncan Munro
>

240. Mouse Whell Change Freq Step

Yahoo group: kgksdr
Date: 2006-01-25 20:10:40 UTC
From: n3hkn
Topic: 240 Message: 240

I notice that the mouse wheel click function (push down on the wheel) has no assignment. A suggestion would be to use it to click/change through say three steps for wheel rotation frequency changes. 10hz, 100hz, and 1khz. Step through and then return to 10hz after 1khz. Display briefly the step value somewhere on the display for a few seconds.

Dick N3HKN

241. Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-26 19:06:12 UTC
From: Des
Topic: 212 Message: 241

Hello again Duncan and the group,

Thanks for the response to my previous postings. I wonder if you could clarify something for me? Please keep in mind I know very little about software, PC Soundacrds etc so I may be looking at this far to simplisticly but here goes anyway.

In a closing comment to your last posting relating to the Soundblaster Live 24 Bit PCI soundcard you said....

Quote:
"I'm fairly sure it should be able to take a request for 24 or even 32 bits for output"
End Quote:

Does the soundcards 24 Bit not limit the DAC output to 24 Bit depth too?

Regards to all on the list,

Des (M0AYF and clueless)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Des wrote:
> > On the speaker output I use the 16 Bit option which seems fine. Now
> > the 24 Bit option is present I decided to give it a go for the output
> > but the dreaded "Format not supported while opening soundcard for
> > output" error popped up. This causes no problems performance seems
> > more than good enough with the 16 Bit option selected but I thought I
> > would give the group the feedback.
>
> Hi Des, to be honest I had never given this much thought as I normally
> leave the output on 16 bits seeing as it's CD quality anyway. I've
just
> tried it and 8/16 work OK but it won't play the game on 24 bits at all.
>
> I'm fairly sure it should be able to take a request for 24 or even 32
> bits for output, and will do some further research...
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

242. Re: [kgksdr] Mouse Whell Change Freq Step

Yahoo group: kgksdr
Date: 2006-01-26 19:26:33 UTC
From: Duncan Munro
Topic: 240 Message: 242

n3hkn wrote:
> I notice that the mouse wheel click function (push down on the wheel)
> has no assignment. A suggestion would be to use it to click/change
> through say three steps for wheel rotation frequency changes. 10hz,
> 100hz, and 1khz. Step through and then return to 10hz after 1khz.
> Display briefly the step value somewhere on the display for a few seconds.

Hi Dick, good idea. I've put it on the list.

--
Duncan Munro
http://www.m0kgk.co.uk/

243. Re: [kgksdr] Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-26 19:42:30 UTC
From: Duncan Munro
Topic: 212 Message: 243

Des wrote:
> In a closing comment to your last posting relating to the Soundblaster
> Live 24 Bit PCI soundcard you said....
>
> Quote:
> "I'm fairly sure it should be able to take a request for 24 or even 32
> bits for output"
> End Quote:

Hi Des, at face value the quote doesn't make much sense but it's all because of the abstraction between KGKSDR and the hardware. It looks like this:

1 KGKSDR -> 2 Windows KMixer -> 3 WDM driver -> 4 Soundcard

There's a long chain there between where the sound is created in KGKSDR and where it comes out of the speakers. Both 1 & 2 are capable of resampling and altering bit depths, sometimes 3 & 4 are capable of doing it too depending on the card and driver.

What the comment alluded to was really asking Windows KMixer to take 24 or 32 bit samples rather than the soundcard direct.

The SB Live! 24 has a 24 bit DAC, but I'm not sure if it only takes 16 bit digital streams, MIDI voices etc., and mixes them up to 24 bits. It doesn't seem to like being opened for 24 bit output (it will do 24 bit input just fine).

The documentation seems pretty weak on this point, and a quick look round the web didn't turn much up either.

I'm leaning towards ASIO at this point in time as it's a much slicker system, but tends to only have native support from the more expensive soundcards. I will, however, also retain the KMixer model show above because it allows just about any soundcard that can be used by Windows to be used by KGKSDR.

--
Duncan Munro
http://www.m0kgk.co.uk/

244. Re: [kgksdr] ASIO (was Softrock-V5 with M0KGK SDR software (New user))

Yahoo group: kgksdr
Date: 2006-01-27 05:21:44 UTC
From: Bill Tracey
Topic: 212 Message: 244

Take a look at ASIO4ALL - http://www.asio4all.com/ it's what the PowerSDR folks use for getting ASIO support for cards that do not have their own native ASIO drivers.

Cheers,

Bill (kd5tfd)

At 01:42 PM 1/26/2006, Duncan Munro wrote:
><....>
>I'm leaning towards ASIO at this point in time as it's a much slicker
>system, but tends to only have native support from the more expensive
>soundcards. I will, however, also retain the KMixer model show above
>because it allows just about any soundcard that can be used by Windows
>to be used by KGKSDR.
>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/

245. Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-27 14:36:57 UTC
From: Des
Topic: 212 Message: 245

Hello Duncan and the group,

Many thanks for the explanation, very interesting, I had no idea that so many "layers" existed between software running under Windows and the resident hardware. I was also unaware that "re-sampling" sometimes took place. Does re-sampling over any advantages?

All I can say is I am pleased there are folk like yourself who do understand Windows based software and also share an interest in amateur radio.

I have continued to "play" with the Softrck-V5 and KGKSDR (without problem) and I find the "record" feature is great when I want to demonstrate the basics of SDR to others.

It seems that every time I do a demonstration of SDR the band is empty so the ability to replay I/Q recordings is very handy. Even my youngest son was impressed by the fact that you can listen to a different QSO every time you replay the same file. I might make a radio ham out of him yet :-)

A couple of days ago I set the software recording with the intention of making another 5 mins. worth of 40 Mtr "ragchewing" to use for demonstration purposes when the xyl called me away from the shack. I had forgotton all about the recording until I came back to the shack some time later when I was shocked to find I had consumed over 1 G/Byte of h/disk. To my delight I found I had recorded several QSO's and that while I was away band conditions had also "peaked" for a while.

It did highlight one small problem however. In replaying the file I found several bits of interest but in order to get to them I had to replay the file from the start each time. With short recordings this is no problem but with longer recordings its a little slow. Would it be possible to have some sort of "seek" or "jump-to" function to pick out the best bits of a recording quickly? Perhaps based on a time index. I also noted that each time an I/Q recording is played back the filtered area jumps back to the center of the band. When replaying a recording over-and-over to read the callsigns or whatever it would be handy if the "tuning" retained its setting.

Just a couple of ideas for the "wish list"

Regards to all,

Des. (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> Des wrote:
> > In a closing comment to your last posting relating to the Soundblaster
> > Live 24 Bit PCI soundcard you said....
> >
> > Quote:
> > "I'm fairly sure it should be able to take a request for 24 or even 32
> > bits for output"
> > End Quote:
>
> Hi Des, at face value the quote doesn't make much sense but it's all
> because of the abstraction between KGKSDR and the hardware. It looks
> like this:
>
> 1 KGKSDR -> 2 Windows KMixer -> 3 WDM driver -> 4 Soundcard
>
> There's a long chain there between where the sound is created in KGKSDR
> and where it comes out of the speakers. Both 1 & 2 are capable of
> resampling and altering bit depths, sometimes 3 & 4 are capable of
doing
> it too depending on the card and driver.
>
> What the comment alluded to was really asking Windows KMixer to take 24
> or 32 bit samples rather than the soundcard direct.
>
> The SB Live! 24 has a 24 bit DAC, but I'm not sure if it only takes 16
> bit digital streams, MIDI voices etc., and mixes them up to 24 bits.
It
> doesn't seem to like being opened for 24 bit output (it will do 24 bit
> input just fine).
>
> The documentation seems pretty weak on this point, and a quick look
> round the web didn't turn much up either.
>
> I'm leaning towards ASIO at this point in time as it's a much slicker
> system, but tends to only have native support from the more expensive
> soundcards. I will, however, also retain the KMixer model show above
> because it allows just about any soundcard that can be used by Windows
> to be used by KGKSDR.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

246. Re: [kgksdr] ASIO (was Softrock-V5 with M0KGK SDR software (New user))

Yahoo group: kgksdr
Date: 2006-01-27 19:55:39 UTC
From: Duncan Munro
Topic: 212 Message: 246

Bill Tracey wrote:
> Take a look at ASIO4ALL - http://www.asio4all.com/ it's what the PowerSDR
> folks use for getting ASIO support for cards that do not have their own
> native ASIO drivers.

Thanks Bill, I did use it quite early on when I had first built my
Softrock 40 and was trying it with PowerSDR but have only returned to it
in the last week or two while I've been doing some ASIO experiments.

It's a very clever piece of software!

--
Duncan Munro
http://www.m0kgk.co.uk/

247. Re: [kgksdr] Re: Softrock-V5 with M0KGK SDR software (New user)

Yahoo group: kgksdr
Date: 2006-01-27 19:58:50 UTC
From: Duncan Munro
Topic: 212 Message: 247

Hi Des,

> ... Does re-sampling over any advantages?

Not really any big advantage at this time, but I wanted to get the resampler code right early on.

In future, it will become an absolute necessity as future versions of KGKSDR will use have a different receiver core.

Currently, everything is calculated at typically 48k or 96k requiring quite a bit of CPU.

In future the signal will be mixed and resampled down to 8k for fine filtering and DSP stuff which will allow much more clever routines to be used, and will actually lower the CPU load. I believe this is what Alex uses for the Rocky program and it makes perfect sense.

It will also allow an option for analogue style filters to be used which reduces latency - the time between the signal coming into the PC and going out the other end. The latency issue is one of the biggest grievances by CW (esp QSK) ops on SDR.

Coming back to your original question, if ASIO is used, that 8k signal is going to have to be resampled back to 48k or 96k again - this is where it will become invaluable.

> ... Would it
> be possible to have some sort of "seek" or "jump-to" function to pick
> out the best bits of a recording quickly? Perhaps based on a time
> index. I also noted that each time an I/Q recording is played back the
> filtered area jumps back to the center of the band. When replaying a
> recording over-and-over to read the callsigns or whatever it would be
> handy if the "tuning" retained its setting.

I don't see any problem with those at all. It's been added to the dev list in the group's database section - should be done this weekend along with the mouse-wheel-click option for Dick.

--
Duncan Munro
http://www.m0kgk.co.uk/

248. Locks up

Yahoo group: kgksdr
Date: 2006-01-27 20:06:37 UTC
From: nels_58701
Topic: 248 Message: 248

I have a strange problem. I had everything working fine and all of a sudden when I start the receiver it locks up the computer. I can go into settings and change anything I want and its just when I start the receiver and the stop button is still grayed out.
Same if using Softrock 4.0 or 5.0. The sound card is the SB Audigy 2 ZS. It is set at Sample rate 96 and 32 bits. This is what it was set at when it was working.
The Rocky 1.41 and the other software works fine.
I have uninstalled and deleted the kgksdr folder searched in the register for any kgksdr entrys and found none.
Help Please

Nels W0TUP
anelson@...

249. Re: [kgksdr] Locks up

Yahoo group: kgksdr
Date: 2006-01-27 21:48:29 UTC
From: Duncan Munro
Topic: 248 Message: 249

nels_58701 wrote:
> I have a strange problem. I had everything working fine and all of a
> sudden when I start the receiver it locks up the computer. I can go
> into settings and change anything I want and its just when I start the
> receiver and the stop button is still grayed out.
> Same if using Softrock 4.0 or 5.0. The sound card is the SB Audigy 2 ZS.
> It is set at Sample rate 96 and 32 bits. This is what it was set at
> when it was working.
> The Rocky 1.41 and the other software works fine.
> I have uninstalled and deleted the kgksdr folder searched in the
> register for any kgksdr entrys and found none.
> Help Please

Hi Nels, a few questions:

* What build of KGKSDR are you using? (it's in Help|About)
* What is the processor speed of your PC?
* Is the whole computer locking or just KGKSDR?

--
Duncan Munro
http://www.m0kgk.co.uk/

250. Re: [kgksdr] Locks up

Yahoo group: kgksdr
Date: 2006-01-27 22:20:51 UTC
From: Guido
Topic: 248 Message: 250
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

251. Re: [kgksdr] Locks up

Yahoo group: kgksdr
Date: 2006-01-28 04:52:43 UTC
From: Arlon Nelson
Topic: 248 Message: 251

That fixed my problem. Thanks a million you saved my hair. hi hi

Guido wrote:

> Hi Nels,
>
> Once, I had the same. Then I deleted the active .cal file which is in
> the folder: C:\Documents and Settings\Administrator\Application
> Data\Duncan Amplification\KGKSDR
> and that resolved it.
>
> Hope this helps,
> 73
> Guido
>
> On 1/27/06, *nels_58701* <anelson@...
> <mailto:anelson@...>> wrote:
>
> I have a strange problem. I had everything working fine and all of a
> sudden when I start the receiver it locks up the computer. I can go
> into settings and change anything I want and its just when I start the
> receiver and the stop button is still grayed out.
> Same if using Softrock 4.0 or 5.0. The sound card is the SB Audigy
> 2 ZS.
> It is set at Sample rate 96 and 32 bits. This is what it was set at
> when it was working.
> The Rocky 1.41 and the other software works fine.
> I have uninstalled and deleted the kgksdr folder searched in the
> register for any kgksdr entrys and found none.
> Help Please
>
> Nels W0TUP
> anelson@... <mailto:anelson@...>
>
>
>
>
>
> SPONSORED LINKS
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+suppl
y&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+
craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>

> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "kgksdr
> <http://groups.yahoo.com/group/kgksdr>" on the web.
>
> * To unsubscribe from this group, send an email to:
> kgksdr-unsubscribe@yahoogroups.com
> <mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/> .
>
>
> ---
>
>
>
>
> SPONSORED LINKS
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
> Ham radio
> <http:/groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "kgksdr
> <http://groups.yahoo.com/group/kgksdr>" on the web.
>
> * To unsubscribe from this group, send an email to:
> kgksdr-unsubscribe@yahoogroups.com
> <mailto:kgksdr-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.

>
>
> ----------
>

--

73,

Nels, W?TUP
Minot, North Dakota
anelson@... - w0tup@...
http://min.midco.net/ws
Ward County - Grid Locator DN98if
Flying Pigs 590 - QRPp-I #760 - 20/30M RockMites
ARRL - FISTS #8610 - CC #1310 - FISTS WAS #143
FISTS PLATINUM #365 - FISTS SILVER #367
ARRL SSTV WAS #33 - IVCA MIXED BAND SSTV #1
40 MTR CW WAS - DXCC # 39623
-
Two antennas met on a tower, fell in love and
got married. The ceremony wasn't much, but the
reception was excellent.
-

252. KGKSDR minor update build 28 - controls for playing back IQ files

Yahoo group: kgksdr
Date: 2006-01-28 18:36:12 UTC
From: Duncan Munro
Topic: 252 Message: 252

Build 28 now released at:

http://www.m0kgk.co.uk/sdr/download.php

Changes are as follows:

FIXED: Problem with buffer sizes that could cause problems with 24 bit IQ input.

FIXED: Frequency is no longer reset to the centre position every time you press start or play an IQ wave file.

ADDED: When playing pre-recorded IQ wave files, there is now a set of controls that identify the position in the file and allows you to move around.

ADDED: New item on Options -> Receiver -> Controls to allow the middle button (typically wheel press) to vary the rate of tuning if the wheel is being used for that purpose.

73,

Duncan M0KGK

253. Soundblaster Live 24 Internal vs External

Yahoo group: kgksdr
Date: 2006-01-28 18:48:51 UTC
From: nika01.rm
Topic: 253 Message: 253

The internal card is a totally different beast than the USB version.
It does work with a 96 khz , 24 bit setting. The USB version simply
will not supply 96 khz of bandwidth.
Also, there are no issues with having to modify the SoftRock 5.0 to
experience the expanded bandwidth.

Phil AB8EO

254. Component changes for increased bandwidth on 40 M

Yahoo group: kgksdr
Date: 2006-01-28 18:56:43 UTC
From: nika01.rm
Topic: 254 Message: 254

A stock SR 5.0 will deliver at least 96 khz of bandwidth.

Phil AB8EO

255. 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-28 22:12:43 UTC
From: nika01.rm
Topic: 255 Message: 255

I can use Rocky with no problems, but M0KGK locks up tight when I choose 96 k and 24 bit. I have adjusted the device control program for the proper settings. I also have the latest alpha code.
I have a 1 ghz athalon processor and 512 meg of ram.
It is really a severe lockup, necessitating a reboot to free things up. Lesser bandwidth and bit size are ok.

Phil AB8EO

256. Re: [kgksdr] 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-28 22:43:33 UTC
From: Duncan Munro
Topic: 255 Message: 256

nika01.rm wrote:
> I can use Rocky with no problems, but M0KGK locks up tight when I
> choose 96 k and 24 bit. I have adjusted the device control program for
> the proper settings. I also have the latest alpha code.
> I have a 1 ghz athalon processor and 512 meg of ram.
> It is really a severe lockup, necessitating a reboot to free things
> up. Lesser bandwidth and bit size are ok.

Hi Phil, I think 96x24 might be too much. The reason I say that is that the 1.2GHz Athlon here will only just scrape 96x24 with very little to spare.

Dropping the samplerate will give a lot more CPU back than dropping the bit depth, but the trouble there is you lose half the band :-(

A tip that might be worth trying is ensure the receiver priority is not set too high. Lowering it will cause packets to drop when it starts getting into trouble instead of consuming what little CPU is left and making the machine unresponsive.

Other things to lower CPU load, if you're collecting cal points try the least aggressive setting.

--
Duncan Munro
http://www.m0kgk.co.uk/

257. Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 00:15:51 UTC
From: nika01.rm
Topic: 255 Message: 257

Thanks Duncan,

This all might mean I should get a bit more modern PC, it would be a great excuse to try on my wife. The kids got the USB version of the sound card, I should get something in return.

In the mean time (and probably for the next several years) I will make use of your suggestions to lower the overhead.

Phil AB8EO

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@d...> wrote:
>
> nika01.rm wrote:
> > I can use Rocky with no problems, but M0KGK locks up tight when
I
> > choose 96 k and 24 bit. I have adjusted the device control
program for
> > the proper settings. I also have the latest alpha code.
> > I have a 1 ghz athalon processor and 512 meg of ram.
> > It is really a severe lockup, necessitating a reboot to free
things
> > up. Lesser bandwidth and bit size are ok.
>
> Hi Phil, I think 96x24 might be too much. The reason I say that
is that
> the 1.2GHz Athlon here will only just scrape 96x24 with very
little to
> spare.
>
> Dropping the samplerate will give a lot more CPU back than
dropping the
> bit depth, but the trouble there is you lose half the band :-(
>
> A tip that might be worth trying is ensure the receiver priority
is not
> set too high. Lowering it will cause packets to drop when it
starts
> getting into trouble instead of consuming what little CPU is left
and
> making the machine unresponsive.
>
> Other things to lower CPU load, if you're collecting cal points
try the
> least aggressive setting.
>

```
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>
```

258. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 01:01:36 UTC
From: Duncan Munro
Topic: 255 Message: 258

nika01.rm wrote:
> Thanks Duncan,
>
> This all might mean I should get a bit more modern PC, it would be a
> great excuse to try on my wife. The kids got the USB version of the
> sound card, I should get something in return.
>
> In the mean time (and probably for the next several years) I will
> make use of your suggestions to lower the overhead.

Yup, the difference between ticking along nicely and being in serious trouble at 96x24 is only 100-200 MHz. Sad, but true.

Help may be at hand in the next month or two as I'm developing an additional lightweight receiver core based on analogue filter designs rather than the CPU-hungry Fast Fourier Transforms which seem to be the cornerstone of the SDR solutions I've seen so far.

This user selectable core is primarily aimed at CW ops and getting the latency down, although it will be quite quite suited to SSB too. One of the big benefits will be a massive reduction in CPU usage.

Don't put off buying the faster PC though, the kids will love it for the games ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

259. Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 01:55:50 UTC
From: nika01.rm
Topic: 255 Message: 259

It just gets weirder, but better.

I got it to work, with all the settings as fast as they will go. The trick was creating a new radio definition. That is to say I deleted the existing frequency entry from the receiver setup and entered another one.

Make sense to you Duncan ?

Phil AB8EO

260. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 02:02:30 UTC
From: KD5NWA
Topic: 255 Message: 260

Are you using multiplication against the FFT data array for filtering?

At 07:01 PM 1/28/2006, you wrote:

>nika01.rm wrote:
> > Thanks Duncan,
> >
> > This all might mean I should get a bit more modern PC, it would be a
> > great excuse to try on my wife. The kids got the USB version of the
> > sound card, I should get something in return.
> >
> > In the mean time (and probably for the next several years) I will
> > make use of your suggestions to lower the overhead.
>
>Yup, the difference between ticking along nicely and being in serious
>trouble at 96x24 is only 100-200 MHz. Sad, but true.
>
>Help may be at hand in the next month or two as I'm developing an
>additional lightweight receiver core based on analogue filter designs
>rather than the CPU-hungry Fast Fourier Transforms which seem to be the
>cornerstone of the SDR solutions I've seen so far.
>
>This user selectable core is primarily aimed at CW ops and getting the
>latency down, although it will be quite quite suited to SSB too. One of
>the big benefits will be a massive reduction in CPU usage.
>
>Don't put off buying the faster PC though, the kids will love it for the
>games ;-)
>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>
>--

>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006
>
>
>
>
>--
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006

261. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 02:05:05 UTC
From: Duncan Munro
Topic: 255 Message: 261

nika01.rm wrote:
> It just gets weirder, but better.
>
>
> I got it to work, with all the settings as fast as they will go. The
> trick was creating a new radio definition. That is to say I deleted
> the existing frequency entry from the receiver setup and entered
> another one.
>
> Make sense to you Duncan ?

Hi Phil, yes it does make some sense. This is all to do with calibration and forming the calibration maps. Unfortunately, all this cal stuff does add a lot of 'baggage'.

If it's having a hell of a job trying to calibrate, it gives up - this is what happens when you create a new frequency, and hence a new calibration map. If it can do some cal stuff to get rid of the images, it will take some CPU to do it.

This happens in stages which advance as the software learns - I won't bore you with all the details as it's been done to death here before, but I fear the problem will slowly creep back...

--
Duncan Munro
http://www.m0kgk.co.uk/

262. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 09:39:03 UTC
From: N Munro
Topic: 255 Message: 262

nika01.rm wrote:

> Thanks Duncan,
>
> This all might mean I should get a bit more modern PC, it would be a
> great excuse to try on my wife. The kids got the USB version of the
> sound card, I should get something in return.
>
> In the mean time (and probably for the next several years) I will
> make use of your suggestions to lower the overhead.
>
> Phil AB8EO

Phil
Not sure if turning off the data collection will lower your CPU overhead, but Duncan will put us right if it doesn't. (There is no CPU issue with my current PC).
I have done a Manual calibration using a signal generator (as per the Help file) and with only about 20 CAL points (approx every 5 kHz) I get very acceptable image rejection. Having done that I am now running with only the Manual and Apply Calibration boxes ticked in the Receiver Options > General menu.

At the moment 40m is extremely busy with strong contest signals of every flavour (CW/RTTY/SSB) and there is only the slightest hint of image breakthrough - some of the VERY strong stations are showing up at the image frequency, but even they are barely detectable. Things have certainly improved dramatically since the image "problem" surfaced about a month ago during the last big RTTY contest.

I think that a single Manual CAL sweep will suffice for most people's needs and, with data collection turned off, it should hopefully reduce the load on the CPU. In my own case the Manual plot is giving results as good as (perhaps, even better than?) using Auto Collection. Any thoughts, Duncan?

Norman - GM4KGK

263. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 09:54:39 UTC
From: Duncan Munro
Topic: 255 Message: 263

KD5NWA wrote:
> Are you using multiplication against the FFT data array for filtering?

Currently no, it's done on selecting the points of interest only.
Effective like multiplying by 0 0 0 0 1 1 1 0 0 0 0 0 etc. but using
less CPU.

--
Duncan Munro
http://www.m0kgk.co.uk/

264. Re: [kgksdr] Re: 24 Live PCI lockup with M0KGK

Yahoo group: kgksdr
Date: 2006-01-29 09:54:44 UTC
From: Duncan Munro
Topic: 255 Message: 264

N Munro wrote:

> I think that a single Manual CAL sweep will suffice for most people's
> needs and, with data collection turned off, it should hopefully reduce
> the load on the CPU. In my own case the Manual plot is giving results as
> good as (perhaps, even better than?) using Auto Collection. Any
> thoughts, Duncan?

Yes, manual cal is a very good idea and saves having to collect and
process many thousands of potential data points.

I was listening to 40m yesterday and there were constests for datamodes,
SSB and a French CW contest which was coming in very strong here.

There was a slight image of CW turning up in one place in the SSB area
of the band. The auto produced cal map has a zillion points in just one
place that seem wildly out of place with those around it.

I believe this is caused by a spur produced by the Delta 66 (other cards
do other spurs in different places). Check out
http://www.m0kgk.co.uk/images/soundcards.gif

Manual cal didn't have this problem so is becoming more attractive the
more I look at it.

--
Duncan Munro
http://www.m0kgk.co.uk/

265. PSK31 and RTTY buttons?

Yahoo group: kgksdr
Date: 2006-01-29 13:53:11 UTC
From: n3wtus
Topic: 265 Message: 265

Hello Duncan,

The program just keeps getter beter and better and better! Thank you very much. I am wondering what your future plans are for the PSK31 and RTTY buttons. Sure would be neat to build in the psk-core receive engine and maybe even mmtty without the need for a second sound card.

Right now I use MixW with a second soundcard. The Softrock, M0KGK,and Mix32 combination create a teriffic digital mode receiver.

Thank you again Duncan.

73 John, N3WT

266. Re: [kgksdr] PSK31 and RTTY buttons?

Yahoo group: kgksdr
Date: 2006-01-29 15:06:32 UTC
From: Duncan Munro
Topic: 265 Message: 266

n3wtus wrote:
> Hello Duncan,
>
> The program just keeps getter beter and better and better! Thank you
> very much. I am wondering what your future plans are for the PSK31
> and RTTY buttons. Sure would be neat to build in the psk-core receive
> engine and maybe even mmtty without the need for a second sound card.
>
> Right now I use MixW with a second soundcard. The Softrock,
> M0KGK,and Mix32 combination create a teriffic digital mode receiver.

Hi John, thanks for the feedback. PSK31 and RTTY will be made available at a future time as will a documented interface if other developers want to develop additional modes.

This will allow plugins to be developed for KGKSDR and is part of 'restructuring of the architecture' that will be taking place over the next couple of months along with the lightweight core for CW.

As for the modes, PSK/RTTY will be top of the list due to their popularity.

--
Duncan Munro
http://www.m0kgk.co.uk/

267. Suggstion-Show Fixed Filter Values

Yahoo group: kgksdr
Date: 2006-01-29 17:24:03 UTC
From: n3hkn
Topic: 267 Message: 267

Would it be possible to show, in the sliders, the values associated with the SSB, CW and AM fixed filters? Sort of offers a basis for the construction of your own to be stored in a seperate user specific set of filters. Not a big deal and certainly low priority. Just a thought since Power SDR had a similar function.

Since you are moving to a new digital filtering scheme I was curious since all of the similar programs I have heard about appear to use Fourier's stuff. Perhaps you could direct the LAY PERSON to a site where the two filtering schemes are discussed. Also, calling the upcoming filtering "analogue" seems strange given that it has to be digital?? Or does it??

Dick N3HKN

268. Re: [kgksdr] Suggstion-Show Fixed Filter Values

Yahoo group: kgksdr
Date: 2006-01-29 18:06:51 UTC
From: Duncan Munro
Topic: 267 Message: 268

n3hkn wrote:
> Would it be possible to show, in the sliders, the values associated
> with the SSB, CW and AM fixed filters? Sort of offers a basis for the
> construction of your own to be stored in a seperate user specific set
> of filters. Not a big deal and certainly low priority. Just a thought
> since Power SDR had a similar function.

Hi Dick,

They are not on there as you say but just for info the three SSB filters
are 2.1=350/2450, 2.6=300/2900, 3.1=200/3300.

The CW filters are as shown on the buttons, 100, 150, 200 etc. and
centred around whatever frequency you pick in the receiver options.

AM filters are as shown on the buttons, there is no min freq because of
course the width of the filter is pulling in both sidebands and the carrier.

> Since you are moving to a new digital filtering scheme I was curious
> since all of the similar programs I have heard about appear to use
> Fourier's stuff. Perhaps you could direct the LAY PERSON to a site
> where the two filtering schemes are discussed. Also, calling the
> upcoming filtering "analogue" seems strange given that it has to be
> digital?? Or does it??

The additional filtering, I don't have any specific web site address in
the context of SDR application. Probably this is because the popular
SDR applications are using FFT only (as far as I am aware) so this is
fairly experimental at this time.

Re: analogue, this refers to using traditional filters with poles and
zeros using polynomials by Chebyshev, Butterworth, et al. Indeed they
are not analogue in the true sense as they will be implemented in the
digital domain. Maybe I should call them 'classic filters' from now on
as this is bound to cause some confusion!

As I'm typing this, I've just remembered a site that might be of
assistance to you. It's not aimed at SDR, but more general DSP stuff.
It does however cover filtering by FFTs and filtering by classic methods
which go under names such as FIR or IIR (Finite Impulse Response /
Infinite Impulse Response). These are the the cornerstones of any SDR
solution.

http://www.bores.com/courses/intro/index.htm

This is an organisation that specialises in DSP training material. The
link above takes you to their free online training course which I

believe is very well presented and allows those with little or no knowledge of DSP to understand the concepts - I've used it a lot.

Key things you will be interested in are FFT, FIR, IIR but it's worth taking time to look through the whole lot.

--
Duncan Munro
http://www.m0kgk.co.uk/

269. Soundcard noise performance

Yahoo group: kgksdr
Date: 2006-01-29 18:34:22 UTC
From: Duncan Munro
Topic: 269 Message: 269

For those who wish to check the noise or spurs on their soundcard,
I've uploaded the tool I used here to check out the Delta 66 and
Soundblaster Live! 24.

It's in the files area under tools.

73,

Duncan
M0KGK

270. Re: [kgksdr] Suggstion-Show Fixed Filter Values

Yahoo group: kgksdr
Date: 2006-01-29 18:37:25 UTC
From: KD5NWA
Topic: 267 Message: 270

Here is a free book that is excellent at explaining various aspects
of DSP technology.

You can download it as a PDF file at;

< http://www.dspguide.com/ >

At 12:06 PM 1/29/2006, Duncan Munro wrote:

>n3hkn wrote:
> > Would it be possible to show, in the sliders, the values associated
> > with the SSB, CW and AM fixed filters? Sort of offers a basis for the
> > construction of your own to be stored in a seperate user specific set
> > of filters. Not a big deal and certainly low priority. Just a thought
> > since Power SDR had a similar function.
>
>Hi Dick,
>
>They are not on there as you say but just for info the three SSB filters
>are 2.1=350/2450, 2.6=300/2900, 3.1=200/3300.
>
>The CW filters are as shown on the buttons, 100, 150, 200 etc. and
>centred around whatever frequency you pick in the receiver options.
>
>AM filters are as shown on the buttons, there is no min freq because of
>course the width of the filter is pulling in both sidebands and the carrier.
>
> > Since you are moving to a new digital filtering scheme I was curious
> > since all of the similar programs I have heard about appear to use
> > Fourier's stuff. Perhaps you could direct the LAY PERSON to a site
> > where the two filtering schemes are discussed. Also, calling the
> > upcoming filtering "analogue" seems strange given that it has to be
> > digital?? Or does it??
>
>The additional filtering, I don't have any specific web site address in
>the context of SDR application. Probably this is because the popular
>SDR applications are using FFT only (as far as I am aware) so this is
>fairly experimental at this time.
>
>Re: analogue, this refers to using traditional filters with poles and
>zeros using polynomials by Chebyshev, Butterworth, et al. Indeed they
>are not analogue in the true sense as they will be implemented in the
>digital domain. Maybe I should call them 'classic filters' from now on
>as this is bound to cause some confusion!
>
>As I'm typing this, I've just remembered a site that might be of

>assistance to you. It's not aimed at SDR, but more general DSP stuff.
>It does however cover filtering by FFTs and filtering by classic methods
>which go under names such as FIR or IIR (Finite Impulse Response /
>Infinite Impulse Response). These are the the cornerstones of any SDR
>solution.
>
> http://www.bores.com/courses/intro/index.htm
>
>This is an organisation that specialises in DSP training material. The
>link above takes you to their free online training course which I
>believe is very well presented and allows those with little or no
>knowledge of DSP to understand the concepts - I've used it a lot.
>
>Key things you will be interested in are FFT, FIR, IIR but it's worth
>taking time to look through the whole lot.
>
>--
>Duncan Munro
>http://www.m0kgk.co.uk/
>
>
>
>Yahoo! Groups Links
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>
>
>
>
>--
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006
>
>
>
>
>--
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006

Cecil Bayona
KD5NWA
www.qrpradio.com

"I fail to see why doing the same thing over and over and getting the
same results every time is insanity: I've almost proved it isn't;
only a few more tests now and I'm sure results will differ this time ... "

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/2006

271. Soundcard comparison

Yahoo group: kgksdr
Date: 2006-01-30 02:29:10 UTC
From: radiodoc43
Topic: 271 Message: 271

I just posted a graphic display of the background noise from my
Creative Extigy (USB) soundcard using KGKSDR's benchmark software tool.
The settings were 48000 samples and 16 bits.

You can find it in the Files section under folder KC2LFI.

73
Craig
KC2LFI

272. Re: KGKSDR minor update build 28 - controls for playing back IQ files

Yahoo group: kgksdr
Date: 2006-01-30 09:55:34 UTC
From: Des
Topic: 252 Message: 272

Hello again Duncan and the group,

I downloaded build 28 of KGKSDR on Sunday and have been playing with the I/Q file playback options you added and can report the new features function very well.

I like the progress bar, thats a nice touch as it gives a good indication as to when the file is going to "loop" back to the start. I have a single 1.6 G/Byte I/Q file which runs for over an hour and its great to be able to "jump" to different points in the recording. The time index is also very helpful for logging purposes.

What can I say, brilliant!

Many thanks Duncan.

Regards to all in the group.

Des (M0AYF)

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@d...> wrote:
>
> Build 28 now released at:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
> Changes are as follows:
>
> FIXED: Problem with buffer sizes that could cause problems with 24 bit
> IQ input.
>
> FIXED: Frequency is no longer reset to the centre position every time
> you press start or play an IQ wave file.
>
> ADDED: When playing pre-recorded IQ wave files, there is now a set of
> controls that identify the position in the file and allows you to move
> around.
>
> ADDED: New item on Options -> Receiver -> Controls to allow the middle
> button (typically wheel press) to vary the rate of tuning if the wheel
> is being used for that purpose.
>
> 73,
>
> Duncan M0KGK
>

273. Noise Reduction - Background Sounds?

Yahoo group: kgksdr
Date: 2006-01-30 13:16:20 UTC
From: n3hkn
Topic: 273 Message: 273

When using the ANR there is a "burbling or watery" sound very noticeable in the background when the adjustments are made for effective noise reduction. It almost sounds like a dozen conversations occurring at once. While it can be reduced the effectiveness of the ANR is then compromised. While listening to a decent signal the AGC keeps the artifacts suppressed but they are noticeable on weak signals where ANR is most needed.

I2PHD has implemented a very nice noise filter in his program with little distortion or artifacts even at the highest setting which is quite effective. I do not know enough about DSP, despite reading the table of contents of Basic DSP, to comment on his approach.

Regards,
Dick N3HKN

274. Dual Trace Deluxe Version

Yahoo group: kgksdr
Date: 2006-01-30 13:35:29 UTC
From: n3hkn
Topic: 274 Message: 274

Once the new filtering process is settled down a possible enhancement would be a "dual trace" where you show the raw input as now and also the processed signal. Either two traces or switch between them. Strictly for "premium members"...

An editorial comment - At some time having just an SDR receiver, with no transmitter, will become boring. A low-cost SDR-1000 would be great. I have seen inquiries about a transmitter on the Softrock40 forum but they are ignored. Two ways to read that.

I guess that it would be fairly easy to implement a single band CW transceiver with one of the little QRP CW kits. But why go to that trouble if an SDR transceiver could be built.

I replaced my AD9850 SMT (super miniature) in my VFO but still no output. The chip was definitely shorted (500ma current - now 175ma) but no signal out. No scope so can't troubleshoot effectively. Drat!!Really want to be able to go beyond the xtal.

Dick N3HKN

275. Switch to LCD Monitor

Yahoo group: kgksdr
Date: 2006-02-05 01:26:36 UTC
From: nika01.rm
Topic: 275 Message: 275

The calibration algorithm seems happier and so do I since I ditched my CRT based monitor. Spurious signals seem to be greatly reduced. This may be old news, but thought it worth mentioning, especially since the myth of internal sound cards being bad lived so long.

Phil AB8EO

276. Re: Switch to LCD Monitor

Yahoo group: kgksdr
Date: 2006-02-05 12:52:32 UTC
From: n3hkn
Topic: 275 Message: 276

I have noticed that with no antenna connected the V5 shows a very small spike at mid-band. So one would think that when you add a few db of 40 or 20m background noise it would become insignificant. However, adding the antenna causes a siginificant area at mid-band to show up. Either my things or my neighbors making the "contribution". So the sound card (Turtle Beach Santa Cruz) is not very nasty in my case but the environment is. Fortunately, with V5/KGKSDR. it is only an artifact that I will live with since I cannot move to a rural location.

Has anyone put a V5 in a case and noticed a drop in the central spike? Mine is setting in a desk drawer out of harm's way for now nut within 1 foot of my PC et al.
Dick N3HKN

--- In kgksdr@yahoogroups.com, "nika01.rm" <nika01@...> wrote:
>
>
> The calibration algorithm seems happier and so do I since I ditched my
> CRT based monitor. Spurious signals seem to be greatly reduced. This
> may be old news, but thought it worth mentioning, especially since the
> myth of internal sound cards being bad lived so long.
>
> Phil AB8EO
>

277. Re: [kgksdr] Re: Switch to LCD Monitor

Yahoo group: kgksdr
Date: 2006-02-05 13:13:31 UTC
From: Mike WA8BXN
Topic: 275 Message: 277

The spike at the middle is 60 Hz. Try connecting just the shield of your antenna to the rx board and you will probably get just as much spike. Try running the board on a battery. Set the input up for dc isolation for the antenna.
73/72 - Mike WA8BXN

-------Original Message-------

From: n3hkn
Date: 02/05/06 07:55:01
To: kgksdr@yahoogroups.com
Subject: [kgksdr] Re: Switch to LCD Monitor

I have noticed that with no antenna connected the V5 shows a very small spike at mid-band. So one would think that when you add a few db of 40 or 20m background noise it would become insignificant. However, adding the antenna causes a siginificant area at mid-band to show up.

278. PSK in SDR

Yahoo group: kgksdr
Date: 2006-02-05 17:00:21 UTC
From: n3hkn
Topic: 278 Message: 278

Duncan,
I hope that you can come up with a way to integrate PSK (and other digital modes) within the SDR package.

A nice feature would be filtering at the PSK level. Traditionally there is a spectrum or waterfall to show where the signals exist. It would be a nice touch to allow the ability to "build" a filter around a particular signal so that the AGC is not effected by nearby strong signals.

The decoding of PSK is almost entirely based upon the Moe Wheately DLL. My question is - can this be improved upon given experience with DSP and improved sound cards?

I would avoid logging and other "deluxe" features. Logging, in particular, is a lifetime experience if you follow the forum on DXLabs. Databases are NEVER perfect. There is always another way to account for, present, and store info. A suggestion would be to see if there are APIs available to pass data to a logging program but draw a line there.

Just some thought before I immerse myself in the "hoop-la" of the Super Bowl since the Steelers are in it. I live 25 miles to the East of Pittsburgh with a WX of 0c and a little snow.

Regards,
Dick
N3HKN

279. Re: Switch to LCD Monitor

Yahoo group: kgksdr
Date: 2006-02-05 17:10:44 UTC
From: n3hkn
Topic: 275 Message: 279

The spike seems to be at zero hz and is random. I powered V5 from a battery and same spike. It is only about 10 db above noise. There are 60hz spikes, at about the same amplitude on each side of it. They are not there when using a battery - ground loops, power supply, PC power?? Not bothersome for now. If I could afford a scope I might find it and the 60hz stuff but not strong enough, or sufficiently wide, to be a bother.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Mike WA8BXN" <hubby2k@...> wrote:
>
>
> The spike at the middle is 60 Hz. Try connecting just the shield of your
> antenna to the rx board and you will probably get just as much spike. Try
> running the board on a battery. Set the input up for dc isolation for the
> antenna.
> 73/72 - Mike WA8BXN
>
>
> -------Original Message-------
>
> From: n3hkn
> Date: 02/05/06 07:55:01
> To: kgksdr@yahoogroups.com
> Subject: [kgksdr] Re: Switch to LCD Monitor
>
>
> I have noticed that with no antenna connected the V5 shows a very
> small spike at mid-band. So one would think that when you add a few db
> of 40 or 20m background noise it would become insignificant. However,
> adding the antenna causes a siginificant area at mid-band to show up.
>

280. Duncan - Status?

Yahoo group: kgksdr
Date: 2006-02-11 17:12:48 UTC
From: n3hkn
Topic: 280 Message: 280

Duncan,
My curiosity has overcome me. Have not heard from you for since last month. Wonder if all is well.

Dick N3HKN

281. Re: [kgksdr] Duncan - Status?

Yahoo group: kgksdr
Date: 2006-02-11 19:53:08 UTC
From: Duncan Munro
Topic: 280 Message: 281

n3hkn wrote:
> Duncan,
> My curiosity has overcome me. Have not heard from you for since last
> month. Wonder if all is well.

Hi Dick, I sent you an email yesterday?

--
Duncan Munro
http://www.m0kgk.co.uk/

282. Quiet in here...

Yahoo group: kgksdr
Date: 2006-02-15 00:14:04 UTC
From: Duncan Munro
Topic: 282 Message: 282

Just in case anyone is wondering why everything has gone quiet all of a sudden, KGKSDR is getting a lot of internal re-work right now. What this means is that it won't look/feel/smell any different, or have any new extra "bells and whistles", but it will allow the following key items to be implemented:

* ASIO soundcard interface

* Optional lightweight low-latency core

* DSP Plugins

* For software developers, documentation and examples to allow you to write your own addons/plugins

73,

Duncan
M0KGK

283. stub ID

Yahoo group: kgksdr
Date: 2006-02-25 17:57:49 UTC
From: richard
Topic: 283 Message: 283

Hi, I'm trying to get kgksdr running either with wine or crossver office in linux. kgksdr runs under
wine, the sound cards can be selected , kgksdr can be started , with what looks to be an active trace.
There's one but.

Once started the erorr message appears "Unable to locatethe "processor" performance object" and
keeps appearing at 1 sec intervals.

Looking at the wine debug info I get :-

SetLayeredWindowsAttributes (0x30026,0x00000000,215,2) : stub !

Which stub is kgksdr trying to hook on to ?

TIA
Richard

284. Re: stub ID

Yahoo group: kgksdr
Date: 2006-02-25 18:49:49 UTC
From: Duncan Munro
Topic: 283 Message: 284

--- In kgksdr@yahoogroups.com, richard <richard.bown@...> wrote:
> Once started the erorr message appears "Unable to locatethe
"processor" performance object" and
> keeps appearing at 1 sec intervals.
>
> Looking at the wine debug info I get :-
> SetLayeredWindowsAttributes (0x30026,0x00000000,215,2) : stub !
> Which stub is kgksdr trying to hook on to ?

Hi Richard, the Windows32 function to grab the processor performance
data is RegQueryValueEx() which is in advapi32.dll

In any case, I've done an interim build based on last release 28 which
shuts the software up if the performance data is corrupted. The only
downside is that the CPU% used will sit at 0% as it cannot get the
normal Windows CPUDATA to work from.

The updated kgksdr.exe is in the Files area under Tools. Please let
us know how you get on, it would be nice if the software runs under Linux.

73,

Duncan M0KGK

285. Re: [kgksdr] Re: stub ID

Yahoo group: kgksdr
Date: 2006-02-25 19:19:43 UTC
From: richard
Topic: 283 Message: 285

Duncan Munro wrote:
> --- In kgksdr@yahoogroups.com, richard <richard.bown@...> wrote:
> > Once started the erorr message appears "Unable to locatethe
> "processor" performance object" and
> > keeps appearing at 1 sec intervals.
> >
> > Looking at the wine debug info I get :-
> > SetLayeredWindowsAttributes (0x30026,0x00000000,215,2) : stub !
> > Which stub is kgksdr trying to hook on to ?
>
> Hi Richard, the Windows32 function to grab the processor performance
> data is RegQueryValueEx() which is in advapi32.dll
>
> In any case, I've done an interim build based on last release 28 which
> shuts the software up if the performance data is corrupted. The only
> downside is that the CPU% used will sit at 0% as it cannot get the
> normal Windows CPUDATA to work from.
>
> The updated kgksdr.exe is in the Files area under Tools. Please let
> us know how you get on, it would be nice if the software runs under Linux.
>
> 73,
>
> Duncan M0KGK
>
Many thanks for the quick reply Duncan.
That info I can pass on the CXoffice, and I'll grab the interim build asap.
CPU usage is not too important in linux as we can check it with "top" command.
There are some strange usage claimed in some s/w.
One waterfall display prog claims 3%, but if you check the gui takes 3% and the FFT
take 80%..

Thanks
Richard

286. Re: [kgksdr] Re: stub ID

Yahoo group: kgksdr
Date: 2006-02-25 20:27:17 UTC
From: richard
Topic: 283 Message: 286

Duncan Munro wrote:
> --- In kgksdr@yahoogroups.com, richard <richard.bown@...> wrote:
> > Once started the erorr message appears "Unable to locatethe
> "processor" performance object" and
> > keeps appearing at 1 sec intervals.
> >
> > Looking at the wine debug info I get :-
> > SetLayeredWindowsAttributes (0x30026,0x00000000,215,2) : stub !
> > Which stub is kgksdr trying to hook on to ?
>
> Hi Richard, the Windows32 function to grab the processor performance
> data is RegQueryValueEx() which is in advapi32.dll
>
> In any case, I've done an interim build based on last release 28 which
> shuts the software up if the performance data is corrupted. The only
> downside is that the CPU% used will sit at 0% as it cannot get the
> normal Windows CPUDATA to work from.
>
> The updated kgksdr.exe is in the Files area under Tools. Please let
> us know how you get on, it would be nice if the software runs under Linux.
>
> 73,
>
> Duncan M0KGK
It looks good Duncan
Running under wine there a problem at startup, blackscreen.
Under CXoffice in a win 2000 bottle(filesystem) it looks like it works.

Ive sent a copy over to Russ g4pbp to try on his system.
I'll keep you posted.

When the FM function going to be added ?
no urgentcy for it

73 Richard

287. SDR Happenings??

Yahoo group: kgksdr
Date: 2006-03-08 18:10:59 UTC
From: n3hkn
Topic: 287 Message: 287

Duncan,
Any activity on the SDR software front?
Regards,
Dick N3HKN

288. Request for DRM mode

Yahoo group: kgksdr
Date: 2006-03-08 18:40:12 UTC
From: ad9850
Topic: 288 Message: 288

Hi Duncan,

I enjoy to use your SDR software together with the SoftRock from Tony. I would like to see a DRM mode integrated which can be used together with the DREAM decoder software. There is already the AM mode with 10.5 kHz bandwidth within KGKSDR. If its possible to see this part of the spectrum shifted to 12 kHz centre frequency, the audio can go straight into DREAM.

Thanks for your great program!

73 de Bodo, DJ9CS

289. Re: [kgksdr] Request for DRM mode

Yahoo group: kgksdr
Date: 2006-03-09 19:28:19 UTC
From: Duncan Munro
Topic: 288 Message: 289

ad9850 wrote:
> Hi Duncan,
>
> I enjoy to use your SDR software together with the SoftRock from Tony.
> I would like to see a DRM mode integrated which can be used together
> with the DREAM decoder software. There is already the AM mode with
> 10.5 kHz bandwidth within KGKSDR. If its possible to see this part of
> the spectrum shifted to 12 kHz centre frequency, the audio can go
> straight into DREAM.

Hi Bodo, I will put this on the request list.

--
Duncan Munro
http://www.m0kgk.co.uk/

290. Re: [kgksdr] SDR Happenings??

Yahoo group: kgksdr
Date: 2006-03-09 19:27:37 UTC
From: Duncan Munro
Topic: 287 Message: 290

```
n3hkn wrote:
> Duncan,
> Any activity on the SDR software front?

Hi Dick, still plugging away at the changes right now so no earth
shattering announcements just yet ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/
```

291. KGKSDR won't start

Yahoo group: kgksdr
Date: 2006-03-22 19:14:15 UTC
From: Ray B
Topic: 291 Message: 291

Hi All,
Love the KGKSDR decoder .. But am having following problem ..
1- clicking on the start button causes the decoder program to lockup. I can "sometimes" get it to run by opening the Delta44 program .. click on latency .. select a latency (1024 or whatever) and the KGKSDR will run.
2- The KGKSDR also ran (once or twice) after selecting 'Independant' under "multitrack driver devices" .. but soon went back to locking up and now nothing makes it work.
3- The KGKSDR works fine when I use it with the on board sound card or on another computer with a Santa Cruz soundcard.
I hope there is a solution to this .. I really would like to run your software. Oh! I have not had any problem with the SDR1000 or Rocky software.
What settings in the Delta44 software do U recommend. Thanks for your help .. Ray W7RJC

292. Re: [kgksdr] KGKSDR won't start

Yahoo group: kgksdr
Date: 2006-03-22 19:48:55 UTC
From: Duncan Munro
Topic: 291 Message: 292

Ray B wrote:

> 2- The KGKSDR also ran (once or twice) after selecting 'Independant'
> under "multitrack driver devices" .. but soon went back to locking up
> and now nothing makes it work.

Hi Ray, are you pressing 'Save' after changing to Independent? I'm wondering if it keeps the setting for the session and then forgets if you log out or reboot.

Also can you let me know what version of the Delta 44 control panel is in use. Open up the Delta 44 control panel, click the about tab and there should be a driver version and control panel version there.

--
Duncan Munro
http://www.m0kgk.co.uk/

293. Re: KGKSDR won't start

Yahoo group: kgksdr
Date: 2006-03-22 21:42:32 UTC
From: w7rjc
Topic: 291 Message: 293

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray B wrote:
>
> > 2- The KGKSDR also ran (once or twice) after
selecting 'Independant'
> > under "multitrack driver devices" .. but soon went back to
locking up
> > and now nothing makes it work.
>
> Hi Ray, are you pressing 'Save' after changing to Independent?
I'm
> wondering if it keeps the setting for the session and then forgets
if
> you log out or reboot.
>
> Also can you let me know what version of the Delta 44 control
panel is
> in use. Open up the Delta 44 control panel, click the about tab
and
> there should be a driver version and control panel version there.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

Hi Duncan
SAVE dosn't seem to help.
My Delta44 Driver is 5.10.00.0051
Panel version 1.03.26-2.6.00
At the present time I can bring up the KGKSDR .. and go thru the
menus but pressing the start button dose nothing(xcept lock it
up) .. stays in standby and then nothing can be accessed.
Thanks for your quick response Ray W7RJC

294. Re: KGKSDR won't start MORE INFO

Yahoo group: kgksdr
Date: 2006-03-23 03:19:38 UTC
From: w7rjc
Topic: 291 Message: 294

--- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@...> wrote:
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > Ray B wrote:
> >
> > > 2- The KGKSDR also ran (once or twice) after
> selecting 'Independant'
> > > under "multitrack driver devices" .. but soon went back to
> locking up
> > > and now nothing makes it work.
> >
> > Hi Ray, are you pressing 'Save' after changing to Independent?
> I'm
> > wondering if it keeps the setting for the session and then
forgets
> if
> > you log out or reboot.
> >
> > Also can you let me know what version of the Delta 44 control
> panel is
> > in use. Open up the Delta 44 control panel, click the about tab
> and
> > there should be a driver version and control panel version there.
> >
> > --
> > Duncan Munro
> > http://www.m0kgk.co.uk/
> >
>
> Hi Duncan
> SAVE dosn't seem to help.
> My Delta44 Driver is 5.10.00.0051
> Panel version 1.03.26-2.6.00
> At the present time I can bring up the KGKSDR .. and go thru the
> menus but pressing the start button dose nothing(xcept lock it
> up) .. stays in standby and then nothing can be accessed.
> Thanks for your quick response Ray W7RJC

Hi All,
More info on my KGKSDR startup problem.
As I stated earlier I couldn't get the program to start .. Sooo to
get back to where it would run at all I loaded a backup of windows.
Then I set "mutitrack driver devices" in Delta 44 to Independant.

(Is this a correct setting for the KGKSDR and Delta 44 to work togther?)

Now all is working .. Sooo far. Is it posible that doing a manual calibration could have caused my problem. I had tried doing one shortly before KGKSDR went into serious lockup. Now that it's running I have-not had guts enough to try manual cal. again
Hope all this helps. Ray W7RJC
>

295. Manual Calibration

Yahoo group: kgksdr
Date: 2006-03-24 01:36:59 UTC
From: w7rjc
Topic: 295 Message: 295

Hi Duncan
Hope all is well with you.
I seem to have KGKSDR up and continually starting and running .. all is ok .. so far. I would like to do a manual calibration, but am fearful it may have been the cause of my previous problems. Has anyone had difficulty with the manual calibration. When I tried it before it would lockup. I May try it again Friday morning. Hope U got my previous posts on the Delta 44 version. Ray W7RJC

296. Re: [kgksdr] Manual Calibration

Yahoo group: kgksdr
Date: 2006-03-24 07:14:34 UTC
From: Duncan Munro
Topic: 295 Message: 296

w7rjc wrote:
> Hi Duncan
> Hope all is well with you.
> I seem to have KGKSDR up and continually starting and running .. all
> is ok .. so far. I would like to do a manual calibration, but am
> fearful it may have been the cause of my previous problems. Has anyone
> had difficulty with the manual calibration. When I tried it before it
> would lockup. I May try it again Friday morning. Hope U got my
> previous posts on the Delta 44 version. Ray W7RJC

Hi Ray, manual calibration can take a considerable time but there's
nothing in there that could lock up.

When you D44 settings were causing a problem, it would have locked then
(or rather the D44 driver would have locked it), but if you can receive
OK now you should be able to calibrate OK.

--
Duncan Munro
http://www.m0kgk.co.uk/

297. Ray tried manual cal.

Yahoo group: kgksdr
Date: 2006-03-24 19:21:35 UTC
From: w7rjc
Topic: 297 Message: 297

Hi Duncan,
Well I tried Manual Calibration .. Not good!
I got this error when clicked on OK at the end of the calibration.

298. Ray tried manual cal.

Yahoo group: kgksdr
Date: 2006-03-24 19:21:36 UTC
From: w7rjc
Topic: 297 Message: 298

Hi Duncan,
Well I tried Manual Calibration .. Not good!
I got this error when clicked on OK at the end of the calibration.

299. Tried manual calibration

Yahoo group: kgksdr
Date: 2006-03-24 19:32:52 UTC
From: w7rjc
Topic: 299 Message: 299

Hi Again,
Sent my last post early by mistake .. sorry
As I was saying .. I tried manual calibration and when I clicked OK
at the end I got the following error.

"Invalid Floating point operation"

Now I am back where I was when KGKSDR wouldn't start. clicking the
start button dose nothing and KGKSDR is locked up.
Is there any way to correct this with out me having to reload winXp
from my backup?
Sorry I am (my computer) such a pain. Ray W7RJC

300. Re: Tried manual calibration

Yahoo group: kgksdr
Date: 2006-03-24 21:19:40 UTC
From: n3hkn
Topic: 299 Message: 300

Have you tried deleting the Duncan Amplification folder in the
Doccuments & settings/ur id/Applications folder?? If that becomes
messed up you have continuous grief.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@...> wrote:
>
> Hi Again,
> Sent my last post early by mistake .. sorry
> As I was saying .. I tried manual calibration and when I clicked OK
> at the end I got the following error.
>
> "Invalid Floating point operation"
>
> Now I am back where I was when KGKSDR wouldn't start. clicking the
> start button dose nothing and KGKSDR is locked up.
> Is there any way to correct this with out me having to reload winXp
> from my backup?
> Sorry I am (my computer) such a pain. Ray W7RJC
>

301. Re: [kgksdr] Re: Tried manual calibration

Yahoo group: kgksdr
Date: 2006-03-24 23:53:45 UTC
From: Duncan Munro
Topic: 299 Message: 301

n3hkn wrote:
> Have you tried deleting the Duncan Amplification folder in the
> Doccuments & settings/ur id/Applications folder?? If that becomes
> messed up you have continuous grief.

Dick: good tip. It's possible a file in this folder may have become
messed up when the D44 control panel was locking the app.

--
Duncan Munro
http://www.m0kgk.co.uk/

302. Step by step cal. problem W7RJC

Yahoo group: kgksdr
Date: 2006-03-25 17:46:21 UTC
From: w7rjc
Topic: 302 Message: 302

Hi Duncan,
I went thru the manual cal process again .. after getting KGKSDR up and running again.
I ran the cal program and all seemed to be working very well .. I did 8 or 10 cal points. At this point I clicked OK and got the Invalid floating point operation error.
-at this point KGKSDR is still running OK
-Cal maps are blank
-Cliked stop
-KGKSDR stopped
-Clicked start
-got invalid floating point error again
-clicked red X closed KGKSDR
- clicked KGKSDR Icon .. came up
- clicked start .. Nothing happened although start button stayed depressed.
- Shut down KGKSDR and copied a known good copy of KGKSDR into the folder. Didn't help

I hope this description of what happens helps U in solving my problem. Ray W7RJC

303. Re: [kgksdr] Step by step cal. problem W7RJC

Yahoo group: kgksdr
Date: 2006-03-25 18:51:54 UTC
From: Duncan Munro
Topic: 302 Message: 303

w7rjc wrote:
> Hi Duncan,
> I went thru the manual cal process again .. after getting KGKSDR up
> and running again.
> I ran the cal program and all seemed to be working very well .. I
> did 8 or 10 cal points. At this point I clicked OK and got the
> Invalid floating point operation error.
> -at this point KGKSDR is still running OK
> -Cal maps are blank
> -Cliked stop
> -KGKSDR stopped
> -Clicked start
> -got invalid floating point error again
> -clicked red X closed KGKSDR
> - clicked KGKSDR Icon .. came up
> - clicked start .. Nothing happened although start button stayed
> depressed.
> - Shut down KGKSDR and copied a known good copy of KGKSDR into the
> folder. Didn't help

HI Ray, can you send me your calibration file?

It will be in the folder c:\Documents and Settings\<login name>\Application Data\Duncan Amplification\KGKSDR

If you can send me the file, I will try and duplicate the problem here.

--
Duncan Munro
http://www.m0kgk.co.uk/

304. More info on cal problem

Yahoo group: kgksdr
Date: 2006-03-26 01:31:01 UTC
From: w7rjc
Topic: 304 Message: 304

Hello again,
I decided to try manual cal on another computer. Still winXP and KGKsdr running on a Santa Cruz soundcard. I had exactly the same results .. same error message .. same response from KGKSDR. And no cal file (if thats what Im looking for.

In both of these cases the KGKSDR files were not loaded under the C:\program files as the default. Ray W7RJC

305. Re: More info on cal problem

Yahoo group: kgksdr
Date: 2006-03-26 03:35:19 UTC
From: n3hkn
Topic: 304 Message: 305

All of the variables are kept in the folder Duncan described before.
That info, if sent to him, will reveal what is happening.

Are you saying that no folder, as he described, was ever created? If
so then that is a clue unto itself.

Follows the path to my KGKSDR folder. I have Windows XP/SP2 on the E:
drive. I also have a Turtle Beach Santa Cruz card sampling at 48000khz.

E:\Documents and Settings\me2\Application Data\Duncan Amplification\KGKSDR

Example name of a CAL file:
20M$Xtal_48000_2048.cal

Dick N3HKN

--- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@...> wrote:
>
> Hello again,
> I decided to try manual cal on another computer. Still winXP and
> KGKsdr running on a Santa Cruz soundcard. I had exactly the same
> results .. same error message .. same response from KGKSDR. And no cal
> file (if thats what Im looking for.
>
> In both of these cases the KGKSDR files were not loaded under the
> C:\program files as the default. Ray W7RJC
>

306. Re: [kgksdr] More info on cal problem

Yahoo group: kgksdr
Date: 2006-03-26 09:08:34 UTC
From: Duncan Munro
Topic: 304 Message: 306

w7rjc wrote:
> Hello again,
> I decided to try manual cal on another computer. Still winXP and
> KGKsdr running on a Santa Cruz soundcard. I had exactly the same
> results .. same error message .. same response from KGKSDR. And no cal
> file (if thats what Im looking for.
>
> In both of these cases the KGKSDR files were not loaded under the
> C:\program files as the default. Ray W7RJC

Hi Ray, it shouldn't be a problem if KGKSDR isn't loaded in C:\program files, but you absolutely _MUST_ have a \documents and settings folder somewhere or your machine will have real problems (and not just with KGKSDR!).

See msg from Dick N3HKN also, it looks like his docs+Settings folder is on E: drive, maybe yours is on a different drive to C: ??

When you moved to a different computer, were you using the same Softrock?

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

307. W7RJC Cal Problem

Yahoo group: kgksdr
Date: 2006-03-26 22:08:52 UTC
From: w7rjc
Topic: 307 Message: 307

Hi to all responding and thanks to all,
Duncan .. I do have a >documenta and settings< folder however I do not have a folder called >Application Data or one called >Duncan Amplification<. My path is as follows ..

C:\Documents and settings\Ray\My Documents\SDR Programs\M0KGK Decoder.

All the files I've ever had for KGKSDR have been in the >MoKGK Decoder folder.
Dick N3NKN kindly sent me an example of a calibration file name .. I have never seen any such name (20M$Xtal_48000_2048.cal. I am guessing that because I don't have the proper path, is why I am having problems.

Dose your program create the >Application Data and >Duncan Amplification< folders.

I've just done a search for both and do not have them. I do not have them on the computer with the santa Cruz card either. I'm sure that I probably never have had them. Thanks again to all that are helping me.Ray W7RJC 3:09 PM 3-26-06

308. Cal Problem W7rjc

Yahoo group: kgksdr
Date: 2006-03-26 22:13:41 UTC
From: w7rjc
Topic: 308 Message: 308

Hi again Duncan .. YES I was using the same softrock ver. 5 .. Ray

309. Re: [kgksdr] W7RJC Cal Problem

Yahoo group: kgksdr
Date: 2006-03-26 22:27:41 UTC
From: Duncan Munro
Topic: 307 Message: 309

w7rjc wrote:

> Dose your program create the >Application Data and >Duncan
> Amplification< folders.

HI Ray, KGKSDR will not create the Application Data folder although it
will create the Duncan Amplification folder and other folders underneath it.

The App data folder is created when Windows is installed - this is why
I'm a bit concerned that it's not there...

I have a feeling that simply making a folder won't fix the problem either.

Just to explain what's happening in the software, KGKSDR asks Windows
for the location of the Application Data folder and then forces the
creation of the Duncan Amplification and KGKSDR folders if they don't exist.

--
Duncan Munro
http://www.m0kgk.co.uk/

310. Re: More info on cal problem

Yahoo group: kgksdr
Date: 2006-03-26 22:31:28 UTC
From: w7rjc
Topic: 304 Message: 310

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>Hi Dick Thanks for your comments on my Cal. problem. It's been a sinker. You may have nailed the answer in that I do not have any folders called >Application Data or Duncan Amplification or KGKSDR. Why I'm not sure. I have loaded the program into a folder I made in MY Documents folder(SDR Programs\M0KGK Decoder).
My path is as follows ..

C:\Documents and Settings\Ray\My Documents\SDR Programs\M0KGK Decoder.

The KGKSDR.exe and some text files and Help folder are all I ever seen in the folder. Thanks again Dick .. Ray W7RJC 3:32

> All of the variables are kept in the folder Duncan described before.
> That info, if sent to him, will reveal what is happening.
>
> Are you saying that no folder, as he described, was ever created? If
> so then that is a clue unto itself.
>
> Follows the path to my KGKSDR folder. I have Windows XP/SP2 on the E:
> drive. I also have a Turtle Beach Santa Cruz card sampling at 48000khz.
>
> E:\Documents and Settings\me2\Application Data\Duncan Amplification\KGKSDR
>
> Example name of a CAL file:
> 20M$Xtal_48000_2048.cal
>
> Dick N3HKN
>
>
> --- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@> wrote:
> >
> > Hello again,
> > I decided to try manual cal on another computer. Still winXP and
> > KGKsdr running on a Santa Cruz soundcard. I had exactly the same
> > results .. same error message .. same response from KGKSDR. And no cal
> > file (if thats what Im looking for.
> >
> > In both of these cases the KGKSDR files were not loaded under

the
> > C:\program files as the default. Ray W7RJC
> >
>

311. Cal Problem W7rjc

Yahoo group: kgksdr
Date: 2006-03-26 22:32:25 UTC
From: w7rjc
Topic: 308 Message: 311

Hi again Duncan .. YES I was using the same softrock ver. 5 .. Ray

312. Cal Problem Application Data missing

Yahoo group: kgksdr
Date: 2006-03-26 23:09:54 UTC
From: w7rjc
Topic: 312 Message: 312

Hi Duncan,

I have searched for a file called >Application Data< on all 4 computers in my house .. none of them have this folder. All of the computers are running win Xp sp1. Later this night I will ask a friend in town to look and see if its on his computer. Interresting Interresting! Thanks for all your effort in helping me.. must be frustrating to deal with these problems. Ray W7RJC 4:10 Pm 03-26-06

313. HOt Dog! Found MY CAL. Files

Yahoo group: kgksdr
Date: 2006-03-27 02:59:33 UTC
From: w7rjc
Topic: 313 Message: 313

Happy Days Duncan,

The Application folder was a hidden file. All is as U said it would be .. I locaded all the cal files and others in the KGKSAR folder. I have a W7RJC folder in the "Files" folder on this group. I have uploaded all the files from KGKSDR to the W7RJC folder. There are numerous Cal. files. Boy! I hope the is going to lead U to the answer I (we) need. All this thanks to someone on the web who also couldn't find his APP Data folder either. Ray W7RJC Emmett Idaho 7:59pm

314. Soundcard Format Not Supported

Yahoo group: kgksdr
Date: 2006-03-27 14:07:16 UTC
From: Don Brozicevic
Topic: 314 Message: 314

Hello All,
I recently installed the sdr decoder and when I
'Start' I get the message 'Format not supported while
opening soundcard for output'.

I am using a M-Audio Delta 44 soundcard and could use
some configuration help for use with this program (I/Q
inputs 1 &2, outputs 1 & 2).

The Delta 44 and all works well with Rocky SDR.

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315. Re: [kgksdr] Soundcard Format Not Supported

Yahoo group: kgksdr
Date: 2006-03-27 14:36:53 UTC
From: Duncan Munro
Topic: 314 Message: 315

> Hello All,
> I recently installed the sdr decoder and when I
> 'Start' I get the message 'Format not supported while
> opening soundcard for output'.
>
> I am using a M-Audio Delta 44 soundcard and could use
> some configuration help for use with this program (I/Q
> inputs 1 &2, outputs 1 & 2).
>
> The Delta 44 and all works well with Rocky SDR.

Hi Don, if you get format not supported it's probably because you picked either a 24 bit input or output format.

While the Delta 44 has a 24 bit ADC/DAC, it won't talk to Windows at 24 bits. If you try 32 bits it should work just fine.

73,

--
Duncan Munro

316. Re: [kgksdr] Soundcard Format Not Supported

Yahoo group: kgksdr
Date: 2006-03-27 15:09:38 UTC
From: Don Brozicevic
Topic: 314 Message: 316

Hi Duncan,
Got it working!! The new settings are 22,050Hz - 32
Bit on Input and 22,050Hz -16 Bit out. I couldn't get
it to accept a higher sample rate on the inputs.

Now I'll play with the program to get a feel of how to
further set it up; it looks very promising. I'll keep
you posted.

Thank you

--- Duncan Munro <m0kgk@...> wrote:

> > Hello All,
> > I recently installed the sdr decoder and when I
> > 'Start' I get the message 'Format not supported
> while
> > opening soundcard for output'.
> >
> > I am using a M-Audio Delta 44 soundcard and could
> use
> > some configuration help for use with this program
> (I/Q
> > inputs 1 &2, outputs 1 & 2).
> >
> > The Delta 44 and all works well with Rocky SDR.
>
> Hi Don, if you get format not supported it's
> probably because you
> picked either a 24 bit input or output format.
>
> While the Delta 44 has a 24 bit ADC/DAC, it won't
> talk to Windows at 24
> bits. If you try 32 bits it should work just fine.
>
> 73,
>
> --
> Duncan Munro
>

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http://mail.yahoo.com

317. Re: [kgksdr] Soundcard Format Not Supported

Yahoo group: kgksdr
Date: 2006-03-27 15:17:10 UTC
From: Duncan Munro
Topic: 314 Message: 317

> Hi Duncan,
> Got it working!! The new settings are 22,050Hz - 32
> Bit on Input and 22,050Hz -16 Bit out. I couldn't get
> it to accept a higher sample rate on the inputs.
>
> Now I'll play with the program to get a feel of how to
> further set it up; it looks very promising. I'll keep
> you posted.

Hi Don, I've seen this before where the D44 will do the full bit depth but won't do the samplerate and this is normally down to driver versions.

I would recommend you update your drivers to the latest version from M-Audio if you haven't done so already. Optimium settings for the Delta 44 for input and output are 32bit 96kHz and the latest drivers will cover this nicely.

73,

--
Duncan Munro

318. Consistancy errors W7RJC

Yahoo group: kgksdr
Date: 2006-03-27 21:52:55 UTC
From: w7rjc
Topic: 318 Message: 318

Hi Duncan,
I looked at my log .. It says my cal. files have cosistency errors.
What is a consistency error and what do I do about it.

I removed (but saved) the .cal files from the KGKSDR folder and the
program is working again. I won't try a Cal until U say I should.
RAY W7RJC 2:53pm

319. Re: [kgksdr] Consistancy errors W7RJC

Yahoo group: kgksdr
Date: 2006-03-27 22:34:01 UTC
From: Duncan Munro
Topic: 318 Message: 319

w7rjc wrote:
> Hi Duncan,
> I looked at my log .. It says my cal. files have cosistency errors.
> What is a consistency error and what do I do about it.
>
> I removed (but saved) the .cal files from the KGKSDR folder and the
> program is working again. I won't try a Cal until U say I should.
> RAY W7RJC 2:53pm

Hi Ray, I'll have a look at the cal files you posted tomorrow night
(it's late here), and let you know what I find.

A consistency error is where the cal file contains data that simply
doesn't add up. It's a very basic check, but I might get an idea of
what's going on where I have a look at them.

--
Duncan Munro
http://www.m0kgk.co.uk/

320. Re: Consistancy errors W7RJC

Yahoo group: kgksdr
Date: 2006-03-29 19:28:03 UTC
From: Duncan Munro
Topic: 318 Message: 320

--- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@...> wrote:
>
> Hi Duncan,
> I looked at my log .. It says my cal. files have cosistency errors.
> What is a consistency error and what do I do about it.
>
> I removed (but saved) the .cal files from the KGKSDR folder and the
> program is working again. I won't try a Cal until U say I should.

Hi Ray,

I've had a look at the cal files you posted, they look OK. Can you confirm which version of KGKSDR you are using (from Help|About), and also let me know if you have been trying to go back to earlier versions.

73,

Duncan
M0KGK

321. Reply to Cal files look ok W7RJC

Yahoo group: kgksdr
Date: 2006-03-29 20:06:03 UTC
From: w7rjc
Topic: 321 Message: 321

Hi Duncan

The version of KGKSDR I've been using is 1.0.1.28.
Yes I tried earlier versions. I cann't remember if I tried to cal.
them .. don't think I did a manual cal. with them. What do U suggest I
might try to help U out. Ray W7RJC

322. New (different) Cal. problem

Yahoo group: kgksdr
Date: 2006-03-30 01:52:35 UTC
From: w7rjc
Topic: 322 Message: 322

Hi Duncan,
I tried the cal. again .. this time with the zone alarm fire wall turned off and with the Spysweeper software turned off. Got the following reaction.
- All went as it should until I was waiting for the GUESS to finish. It did its thing for several seconds then stopped and I had to Ctrl/Alt/Del it and got the program not responding window. I tryed to cal several time and always ended up the same. A cal file was written to the KGKSDR folder. The good thing is (I guess) the program will start up again without me removing the cal. file from the KGKSDR folder.
The name given to the new cal file is "14245$xtal_96000-1024.CAL" I am putting it in the files folder. It will replace the on by the same name, which U have already looked at. Hope this helps and doesn't cause more mystery. Ray W7RJC

323. Cal file works (with on sound card on motherboard)W7RJC

Yahoo group: kgksdr
Date: 2006-03-30 19:12:10 UTC
From: w7rjc
Topic: 323 Message: 323

Hi Duncan,
Here's what I did.
1- Removed "all sound card software"(realtek ac'97audio and delta44)
2-removed delta44 hardware.
3- reinstalled realtek '97audio driver
4- ran KGKSDR .. ran manual cal.
5- pressed OK and all worked as expected.

Do you have any suggestions as how to proceed from here?
Got to get this on the Delta 44 .. it is sooo much better. Ray W7RJC

324. Re: [kgksdr] Cal file works (with on sound card on motherboard)W7RJC

Yahoo group: kgksdr
Date: 2006-03-30 19:27:47 UTC
From: Duncan Munro
Topic: 323 Message: 324

w7rjc wrote:
> Hi Duncan,
> Here's what I did.
> 1- Removed "all sound card software"(realtek ac'97audio and delta44)
> 2-removed delta44 hardware.
> 3- reinstalled realtek '97audio driver
> 4- ran KGKSDR .. ran manual cal.
> 5- pressed OK and all worked as expected.
>
> Do you have any suggestions as how to proceed from here?
> Got to get this on the Delta 44 .. it is sooo much better. Ray W7RJC

Hi Ray, my suggestion would be to disable the AC97 for now and install the Delta 44. See how you go from there.

I had hellish problems between the AC97 and Delta 44 (not on KGKSDR but on MixW), so it might be good to play with just one at a time and work up from there.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

325. W7RJC CAl. final for 3 weeks

Yahoo group: kgksdr
Date: 2006-03-31 01:08:55 UTC
From: w7rjc
Topic: 325 Message: 325

Hi Duncan,
Well KGKSDR is working (with the Delta44) as long as I don't manual cal. As I said before it will cal with the on board audio sound but not with Delta44.
I have run out of time to work on it for 3 or 4 weeks. I am moving to Michigan for about 18 months. When I get setup there I will renew my efforts to solve the problem. Thanks for all your efforts .. Hope I wasn't to much of a pain. Keep up the good work on a really terrific program. Bye fer now Ray W7RJC

326. PC minimum requirements?

Yahoo group: kgksdr
Date: 2006-03-31 04:40:36 UTC
From: py2wm
Topic: 326 Message: 326

Hi Duncan and all,

What are the processor and operating system minimum requirements for running SDRKGK?

73,

João De Marco, PY2WM

327. Re: [kgksdr] PC minimum requirements?

Yahoo group: kgksdr
Date: 2006-03-31 06:02:45 UTC
From: Duncan Munro
Topic: 326 Message: 327

```
py2wm wrote:
> Hi Duncan and all,
>
> What are the processor and operating system minimum requirements for
> running SDRKGK?

Processor will depend on samplerate, for example if you want to use a
low samplerate like 22050Hz, you could likely get away with a very
old/slow processor.

If you want 96kHz samplerates with DSP functions and calibration
correction, work on 1.5GHz+.

OS needs to be Windows XP, 2000, or later version of NT. I haven't
tried it on 98 or Me but there's no reason why it shouldn't work on
them. One of the ops on this list has had it running under Linux using
an emulator, see previous messages.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/
```

328. averaging for spectrum display and meter

Yahoo group: kgksdr
Date: 2006-04-01 11:13:44 UTC
From: ad9850
Topic: 328 Message: 328

Hi Duncan,

it would be nice to display an averaged spectrum and readout averaged values on the meter diplay. Together with the SoftRock KGKSDR is not just a nice receiver but also a mesurement tool!

Thanks and 73

Bodo, DJ9CS

329. M-audio Delta-66

Yahoo group: kgksdr
Date: 2006-04-04 19:12:02 UTC
From: Richard
Topic: 329 Message: 329
Attachments: 1 described; binary payloads are missing from this source WARC

Hi all,
this has little to do with SDR, but.

I don't want to tie up all the input's/outputs on the interface box,
Ive RTFM'd the blue book, with this board, and I'm running Mandriva
Linux 2006.

What I'd like to do is use one of the spdif imputs on the card direct to
feed the audio from my TV card, which is a wintvgo analogue beasty.

Can you feed an analog signal into one of these ports ?, and what do you
set the options to ?

Alternatively , I may have to find a digital o/p from that card ???

I know its a silly question , but it may help, when doing something the
correct way

TIA
Richard G8JVM

330. Calibration problems

Yahoo group: kgksdr
Date: 2006-04-10 10:50:58 UTC
From: pacogozalez
Topic: 330 Message: 330

Hi,

Nice program, M0KGK-sdr.

I have some trouble with the calibration. The mirror suppression is better when i switch calibration to OFF. Something seems to be wrong.

I dont realy understand what this calibration is doing. In my opinion what is needed is a manual "balance" slider which allows a fine-tuning of I and Q amplitude balance. This value is frequency independent.

The second thing is a phase-delay compensation. This is frequency independent too done the right way (source available).

Would it be possible to add those two calib-sliders ?

331. Re: [kgksdr] Calibration problems

Yahoo group: kgksdr
Date: 2006-04-10 18:54:08 UTC
From: Duncan Munro
Topic: 330 Message: 331

pacogozalez wrote:
> Hi,
>
> Nice program, M0KGK-sdr.
>
> I have some trouble with the calibration. The mirror suppression is
> better when i switch calibration to OFF. Something seems to be wrong.

This doesn't sound right at all. Have you checked your hardware to make sure there is the correct signals coming from I and Q?

> I dont realy understand what this calibration is doing. In my opinion
> what is needed is a manual "balance" slider which allows a fine-tuning
> of I and Q amplitude balance. This value is frequency independent.
>
> The second thing is a phase-delay compensation. This is frequency
> independent too done the right way (source available).
>
> Would it be possible to add those two calib-sliders ?

Yes, but the correction would only be valid at one frequency. Early pre-release versions of KGKSDR had exactly this which was OK for testing but fell apart in the real world.

--
Duncan Munro
http://www.m0kgk.co.uk/

332. Re: Calibration problems

Yahoo group: kgksdr
Date: 2006-04-10 20:17:37 UTC
From: pacogozalez
Topic: 330 Message: 332

> This doesn't sound right at all. Have you checked your hardware to make
> sure there is the correct signals coming from I and Q?

Yes. Its working with DREAM (no calib.) and SDRadio.

> Yes, but the correction would only be valid at one frequency. Early
> pre-release versions of KGKSDR had exactly this which was OK for testing
> but fell apart in the real world.

I dont think so. The balance control should not be freq. dependent at all.
I can use the mixer balance control instead, but the windows mixer balance
is rough, not accurate enough.

For the phase-delay this is only freq. sensitive if the phase is corrected
(powersdr-method). If you correct the timing instead of the phase it
should be valid over the whole 48khz range. The timing can be corrected by
interpolating in-between 2 samples of the Q-data.

However the thing is complicated and i might be completely wrong !

333. Re: Calibration problems

Yahoo group: kgksdr
Date: 2006-04-10 20:35:31 UTC
From: py2wm
Topic: 330 Message: 333

Hi,
In my experience with a QSD much like the SDR1k but crystal controlled, I've found that KGKSDR can trim out amplitude and phase inaccuracies nearly to perfection, as does Rocky, but time instead of phase and frequency independent amplitude correction, as is done in Winrad and SDRadio only works on a single frequency.

73,

João De Marco, PY2WM

--- In kgksdr@yahoogroups.com, "pacogozalez" <pacogozalez@...> wrote:
>
>
> > This doesn't sound right at all. Have you checked your hardware to make
> > sure there is the correct signals coming from I and Q?
>
> Yes. Its working with DREAM (no calib.) and SDRadio.
>
> > Yes, but the correction would only be valid at one frequency. Early
> > pre-release versions of KGKSDR had exactly this which was OK for testing
> > but fell apart in the real world.
>
> I dont think so. The balance control should not be freq. dependent at all.
> I can use the mixer balance control instead, but the windows mixer balance
> is rough, not accurate enough.
>
> For the phase-delay this is only freq. sensitive if the phase is corrected
> (powersdr-method). If you correct the timing instead of the phase it
> should be valid over the whole 48khz range. The timing can be corrected by
> interpolating in-between 2 samples of the Q-data.
>
> However the thing is complicated and i might be completely wrong !
>

334. Re: Calibration problems

Yahoo group: kgksdr
Date: 2006-04-11 11:16:52 UTC
From: pacogozalez
Topic: 330 Message: 334

> time instead
> of phase and frequency independent amplitude correction, as is done
> in Winrad and SDRadio only works on a single frequency.

I did run some tests with a signal generator, and it seems you are right. (I do not understand why)

I will try to re-calibrate the soft using the signal generator.

BTW im running a softrock-similar device on the IF (4.915 mhz) of a single conversion receiver, before the filters. This allows me to receive all ham bands, and i dont have to care about bandpass filters, etc.

335. KGKSDR - FM version

Yahoo group: kgksdr
Date: 2006-04-16 00:31:48 UTC
From: Duncan Munro
Topic: 335 Message: 335

All,

KGKSDR as you know is undergoing some major surgery right now to set it up in good stead for the future. However, a version supporting FM has recently been made available for those who have a need for this mode.

Some caveats: There is no squelch control, and the AGC doesn't look quite right. The former makes it somewhat noisy when there's no signal.

http://www.m0kgk.co.uk/sdr/kgksdr_fm.exe

73,

Duncan
M0KGK

336. Re: [kgksdr] KGKSDR - FM version

Yahoo group: kgksdr
Date: 2006-04-16 00:47:21 UTC
From: Ken N9VV
Topic: 335 Message: 336

H*A*P*P*Y Easter holiday to you all Duncan,
de ken

Duncan Munro wrote:
> All,
>
> KGKSDR as you know is undergoing some major surgery right now to set
> it up in good stead for the future. However, a version supporting FM
> has recently been made available for those who have a need for this mode.
>
> Some caveats: There is no squelch control, and the AGC doesn't look
> quite right. The former makes it somewhat noisy when there's no signal.
>
> http://www.m0kgk.co.uk/sdr/kgksdr_fm.exe
>
> 73,
>
> Duncan
> M0KGK
>
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> Yahoo! Groups Links
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337. Re: [kgksdr] KGKSDR - FM version

Yahoo group: kgksdr
Date: 2006-04-16 00:51:21 UTC
From: Duncan Munro
Topic: 335 Message: 337

Ken N9VV wrote:
> H*A*P*P*Y Easter holiday to you all Duncan,
> de ken

Hi Ken, Happy Easter to you and all the KGKSDR subscribers too!!!

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

338. Re: KGKSDR - FM version

Yahoo group: kgksdr
Date: 2006-04-17 15:37:07 UTC
From: n3hkn
Topic: 335 Message: 338

Good to know that you are continuing development. I have tried other programs but always gravitate to yours. Probably due to the ability to make adjustments. Hams like lots of "knobs".

The V30 works ok for me. The AGC does take a long time to decay after selecting FM. Other than that, ok.

I believe that you are looking at some new code for the noise reduction etc. The present noise reduction does have a peculiar "rumble/bubbly" sound at when listening to low level signals and if very low it reduces readability. I have settled on a 40db threshold and a 3db expansion. Strictly personal preference.

Thanks & regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ken N9VV wrote:
> > H*A*P*P*Y Easter holiday to you all Duncan,
> > de ken
>
> Hi Ken, Happy Easter to you and all the KGKSDR subscribers too!!!
>
> 73,
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

339. Tuning Suggestion

Yahoo group: kgksdr
Date: 2006-04-23 13:02:22 UTC
From: n3hkn
Topic: 339 Message: 339

The Left/Right arrow keys tune at 10hz which is convenient. It would therefore be nice to have the Up/Down arrow keys tune at 100hz. Thus most keyboard style tuning would be in one place. Additionally a Shift Up/Down could tune at 1khz. The idea is to keep all keyboard tuning functions closely grouped. Short of purchasing a Griffin Knob this comes closest to the modern tuning where one knob tunes at both slow and fast rates based upon the incremental rotational speed.

Dick N3HKN

340. Re: [kgksdr] Tuning Suggestion

Yahoo group: kgksdr
Date: 2006-04-23 16:17:02 UTC
From: Duncan Munro
Topic: 339 Message: 340

n3hkn wrote:
> The Left/Right arrow keys tune at 10hz which is convenient. It would
> therefore be nice to have the Up/Down arrow keys tune at 100hz. Thus
> most keyboard style tuning would be in one place. Additionally a Shift
> Up/Down could tune at 1khz. The idea is to keep all keyboard tuning
> functions closely grouped. Short of purchasing a Griffin Knob this
> comes closest to the modern tuning where one knob tunes at both slow
> and fast rates based upon the incremental rotational speed.

Hi Dick, there's something similar in place already.

Left arrow moves -10Hz
Right arrow moves +10Hz
PgDn moves -100Hz
PgUp moves +100Hz
Ctrl+PgDn moves -1kHz
Ctrl+PgUp moves +1kHz

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

341. Re: Tuning Suggestion

Yahoo group: kgksdr
Date: 2006-04-24 10:27:45 UTC
From: n3hkn
Topic: 339 Message: 341

My thpught was to group all of the tuning functions around the four
arrow keys somewhat like a "virtual knob"

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > The Left/Right arrow keys tune at 10hz which is convenient. It would
> > therefore be nice to have the Up/Down arrow keys tune at 100hz. Thus
> > most keyboard style tuning would be in one place. Additionally a Shift
> > Up/Down could tune at 1khz. The idea is to keep all keyboard tuning
> > functions closely grouped. Short of purchasing a Griffin Knob this
> > comes closest to the modern tuning where one knob tunes at both slow
> > and fast rates based upon the incremental rotational speed.
>
> Hi Dick, there's something similar in place already.
>
> Left arrow moves -10Hz
> Right arrow moves +10Hz
> PgDn moves -100Hz
> PgUp moves +100Hz
> Ctrl+PgDn moves -1kHz
> Ctrl+PgUp moves +1kHz
>
> 73,
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

342. "acquired" startup failure

Yahoo group: kgksdr
Date: 2006-04-29 16:28:10 UTC
From: gw4gte
Topic: 342 Message: 342

Hi

Yesterday i tried a manual calibration and at one point got an error message - something about corrupt data but can't quite remember exact wording. since then the prog won't start - it hangs on the opening graphic. REmoving the prog with windows add/remove programs then re-installing doesn't help. Is there a data file somewhere that needs removing? btw: Rocky works ok so I think it something to do with KGKSDR

Thanks
Dave

343. Re: [kgksdr] "acquired" startup failure

Yahoo group: kgksdr
Date: 2006-04-29 17:55:33 UTC
From: Duncan Munro
Topic: 342 Message: 343

gw4gte wrote:
> Hi
>
> Yesterday i tried a manual calibration and at one point got an error
> message - something about corrupt data but can't quite remember exact
> wording. since then the prog won't start - it hangs on the opening
> graphic. REmoving the prog with windows add/remove programs then re-
> installing doesn't help. Is there a data file somewhere that needs
> removing? btw: Rocky works ok so I think it something to do with

Hi Dave, the later versions should be able to fix corrupted maps but it sounds like this has not happened.

There is a folder normally C:\Documents and Settings\<username>\Application Data\Duncan Amplification\KGKSDR

In this folder are the .cal files which can be deleted.

--
Duncan Munro
http://www.m0kgk.co.uk/

344. Re: "acquired" startup failure

Yahoo group: kgksdr
Date: 2006-04-30 13:04:08 UTC
From: gw4gte
Topic: 342 Message: 344

Thanks Duncan for the prompt response.

I deleted the 4 .cal files there and it works fine again. Valuable info. I was trying a manual cal with my sound card - a Creative audigy SE, with not a lot of success. Maybe it's a card with a delayed channel; will experiment further now s/ware running. Many thanks,Dave GW4GTE

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> gw4gte wrote:
> > Hi
> >
> > Yesterday i tried a manual calibration and at one point got an
error
> > message - something about corrupt data but can't quite remember
exact
> > wording. since then the prog won't start - it hangs on the
opening
> > graphic. REmoving the prog with windows add/remove programs then
re-
> > installing doesn't help. Is there a data file somewhere that
needs
> > removing? btw: Rocky works ok so I think it something to do
with
>
> Hi Dave, the later versions should be able to fix corrupted maps
but it
> sounds like this has not happened.
>
> There is a folder normally C:\Documents and
> Settings\<username>\Application Data\Duncan Amplification\KGKSDR
>
> In this folder are the .cal files which can be deleted.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

345. audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 11:56:38 UTC
From: pacogozalez
Topic: 345 Message: 345

I recently bought the audigy SE soundcard, selling at 30$ and 24bit/96khz capable. But this one is a bad performer for SDR. The image suppression is much worse than the old MP3-usb card.

Going deeper into the problem it seems the audigy-SE's AD converter does no sample R and L channels at the same time. One chanel is always half a sample time behind. This introduces a phase delay proportional to the frequency...

Now i did see the creative X-FI soundcards use the same wolfson AD converter as the audigy-SE (except the x-fi top model). Does this mean that the x-fi soundcards are bad performers for sdr as well?

Did anyone test those cards?

346. Re: [kgksdr] audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 12:14:22 UTC
From: KD5NWA
Topic: 345 Message: 346

Several Sound Blaster cards do that, you have to use software with
them that allow the I and Q signals to be one clock off from each other.

That's the way things are.

At 06:56 AM 5/11/2006, you wrote:
>I recently bought the audigy SE soundcard, selling at 30$ and 24bit/
>96khz capable. But this one is a bad performer for SDR. The image
>suppression is much worse than the old MP3-usb card.
>
>Going deeper into the problem it seems the audigy-SE's AD converter
>does no sample R and L channels at the same time. One chanel is always
>half a sample time behind. This introduces a phase delay proportional
>to the frequency...
>
>Now i did see the creative X-FI soundcards use the same wolfson AD
>converter as the audigy-SE (except the x-fi top model). Does this mean
>that the x-fi soundcards are bad performers for sdr as well?
>
>Did anyone test those cards?
>
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>Yahoo! Groups Links
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Cecil Bayona
KD5NWA
www.qrpradio.com

"Windows, the most successful software virus ever" Don Seglio Batuna

347. Re: audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 13:35:46 UTC
From: pacogozalez
Topic: 345 Message: 347

> allow the I and Q signals to be one clock off from each other.

would be simple if it was 1 clock cycle. But it's half a clock cycle.

That's the way things are.

348. Re: [kgksdr] Re: audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 13:51:43 UTC
From: KD5NWA
Topic: 345 Message: 348

The Rocky software will work with that card fine, by telling it the samples are of by 1 clock.

Try it, you will like it.

At 08:35 AM 5/11/2006, you wrote:
> > allow the I and Q signals to be one clock off from each other.
>
>would be simple if it was 1 clock cycle. But it's half a clock cycle.
>
>That's the way things are.
>
>
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>Yahoo! Groups Links
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>

Cecil Bayona
KD5NWA
www.qrpradio.com

"Windows, the most successful software virus ever" Don Seglio Batuna

349. Re: audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 14:42:07 UTC
From: pacogozalez
Topic: 345 Message: 349

> The Rocky software will work with that card fine, by telling it the
> samples are of by 1 clock.

oh, ver 1.5 is out.
now this -1 sample works excellently !

The auto iq-correction does finnally work. This never worked without
the -1 sample thing.

Thanks

btw:
would be nice to have 10khz BW for drm rx.

350. Re: [kgksdr] Re: audigy SE Soundcard troubles

Yahoo group: kgksdr
Date: 2006-05-11 15:14:35 UTC
From: KD5NWA
Topic: 345 Message: 350

Another satisfied customer. On a note from the receivables department, we don't seem to have your address on file, please send me your address so I can bill you at the standard $300 an hour rate.

Thanks again for shopping at Wal-Mart.

At 09:42 AM 5/11/2006, you wrote:
> > The Rocky software will work with that card fine, by telling it the
> > samples are of by 1 clock.
>
>oh, ver 1.5 is out.
>now this -1 sample works excellently !
>
>The auto iq-correction does finnally work. This never worked without
>the -1 sample thing.
>
>Thanks
>
>btw:
>would be nice to have 10khz BW for drm rx.
>
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>Yahoo! Groups Links
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Cecil Bayona
KD5NWA
www.qrpradio.com

"Windows, the most successful software virus ever" Don Seglio Batuna

351. NO messages

Yahoo group: kgksdr
Date: 2006-05-20 01:32:30 UTC
From: Ray Benton
Topic: 351 Message: 351

Hi all,
Whats going on I have not received any messages since May 11th. Have I messed something up with my connection? Can I even post this message?
Ray W7RJC

352. Re: [kgksdr] NO messages

Yahoo group: kgksdr
Date: 2006-05-20 08:34:37 UTC
From: Duncan Munro
Topic: 351 Message: 352

Ray Benton wrote:
> Hi all,
> Whats going on I have not received any messages since May 11th. Have I
> messed something up with my connection? Can I even post this message?
> Ray W7RJC

Hi Ray, no messages have been posted since the 11th so I don't think you missed out on any! Things are quite at the moment while I do major re-write stuff, but things will pick up in the future.

--
Duncan Munro
http://www.m0kgk.co.uk/

353. Re: [kgksdr] NO messages

Yahoo group: kgksdr
Date: 2006-05-20 08:36:08 UTC
From: Duncan Munro
Topic: 351 Message: 353

Duncan Munro wrote:

> Things are quite ...

Sorry, things are quiet!

--
Duncan Munro
http://www.m0kgk.co.uk/

354. soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-23 09:35:18 UTC
From: neil whiting
Topic: 354 Message: 354

Can anybody confirm what audio bandwidth I should be seeing on a SB Live 24 (PCI). Looking both at the Rocky spectrum and using the benchmark software from the files section here it seems my card stops at around 22kHz. Plots in KGK souncards page suggest I should get the expected 40+kHz from the card (running 24 bit, 96kHz). Am I missing any configuration? Running win 98se on a Shuttle SN41G2.

355. Re: [kgksdr] soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-23 10:07:14 UTC
From: Duncan Munro
Topic: 354 Message: 355

> Can anybody confirm what audio bandwidth I should be seeing on a SB
> Live 24 (PCI). Looking both at the Rocky spectrum and using the
> benchmark software from the files section here it seems my card stops
> at around 22kHz. Plots in KGK souncards page suggest I should get the
> expected 40+kHz from the card (running 24 bit, 96kHz). Am I missing
> any configuration? Running win 98se on a Shuttle SN41G2.

Hi Neil, it sounds like the Soundblaster utility needs to be run. This is a piece of software that "opens up" the card but it needs more PCI bandwidth etc.

There's a description on how to do it in the KGKSDR help file:

Help -> Contents -> Receiver Options -> Hardware options

Scroll down the bottom of the page, it's the bit marked "Additional tips for Soundblaster Live! 24".

73,

--
Duncan Munro
M0KGK

356. Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-24 09:27:40 UTC
From: neil whiting
Topic: 354 Message: 356

Hi Duncan,

Thanks for that info. I had trouble finding the "device control" software as it wasn't installed by the Soundblaster CD install, but eventually I explored the CD contents and found a suitable directory which had a setup for it.

I now get a nice flat response up to 40+ kHz. Works fine with Softrock v6 and rocky (except there is a lot of image - I suspect a fault in the Softrock, found my scope this morning so will debug soon). I hope to get the kgksdr software to work too.

73, Neil G4BRK

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> > Can anybody confirm what audio bandwidth I should be seeing on a SB
> > Live 24 (PCI). Looking both at the Rocky spectrum and using the
> > benchmark software from the files section here it seems my card stops
> > at around 22kHz. Plots in KGK souncards page suggest I should get the
> > expected 40+kHz from the card (running 24 bit, 96kHz). Am I missing
> > any configuration? Running win 98se on a Shuttle SN41G2.
>
> Hi Neil, it sounds like the Soundblaster utility needs to be run. This
> is a piece of software that "opens up" the card but it needs more PCI
> bandwidth etc.
>
> There's a description on how to do it in the KGKSDR help file:
>
> Help -> Contents -> Receiver Options -> Hardware options
>
> Scroll down the bottom of the page, it's the bit marked "Additional
> tips for Soundblaster Live! 24".
>
> 73,
>
> --
> Duncan Munro
> M0KGK
>

357. Re: [kgksdr] Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-24 13:57:18 UTC
From: Guido
Topic: 354 Message: 357
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

358. Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-24 15:18:22 UTC
From: neil whiting
Topic: 354 Message: 358

Hi Guido,

Yes, I had heard that this setting was required for the Soundblaster
but when I try it on mine (using Rocky) I don't get an improvement.

I am suspicious there is a problem in the Softrock for other reasons
too. I moved house recently and only just managed to find my scope
this morning, so now I can look at the signals on the board. Hopefully
that will give me the answer.

Thanks for your interest.

73, Neil G4BRK

--- In kgksdr@yahoogroups.com, Guido <threeme3@...> wrote:
>
> Hi Neil,
>
> The imaging is caused by the fact that the samples on the right
channel are
> delayed by one sample for this particular soundcard. But kgksdr has a
> resolution for this by correcting this in software. Please look in the
> settings to set this.
>
> 73, Guido

359. Re: [kgksdr] Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-24 19:36:08 UTC
From: Guido
Topic: 354 Message: 359
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

360. Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-25 08:34:37 UTC
From: neil whiting
Topic: 354 Message: 360

Hi Guido,

Thanks for all the info on your settings. I went round the Softrock with a scope and all seemed OK, so I read through your notes and checked against what I had. Eventually I found a big difference between the left and right channel levels which turned out to be a faulty cable! So now all is working correctly with Rocky and Winrad.

I found an advantage in using the onboard AC97 sound for output - that way I don't get feedback round the soundblaster on strong signals.

73, Neil G4BRK

PS I still have a problem with KGKSDR not seeing either soundcard. Should it work with Win98SE?

--- In kgksdr@yahoogroups.com, Guido <threeme3@...> wrote:
>
> Neil,
>
> To get it working in Rocky 1.5 for my SoftRoch v5.0 I have used the
> following settings:
>
> Input Device: Sound Blaster Live! 24-bit
> Sampling Rate: 96Khz
> Channels: Left/Right = Q/I
> Shift Right Channel by: -1 sample
>
> In the Windows mixer settings for record options of Sound Blaster Live!
> 24-bit I have selected Line-In, set volume to maximum and balance in
middle.
> I have noticed that every time my Windows is restarted, it looses its
> selection, so I have to select another channel first and then reselect
> Line-In.
>
> In Device Control:
> Sampling rate: 96khz
> Bit depth: 24 bits
>
> The SoftRock is selected to the top connector of the Soundcard (S1).
>
> Also for full image rejection, make sure that I/Q Balance is enabled
for:
> - Collect data
> - Correct balance
>

> When you play with the balance, you should see a change in the
status bar
> for Peak Input L and R. When balance in the middle, they should be
> approximately the same, but not exactly, because if so, then there is a
> short between the right and left channel.
>
> 73,
> Guido
>

>

361. Re: [kgksdr] Re: soundblaster live 24 PCI bandwidth

Yahoo group: kgksdr
Date: 2006-05-25 11:04:34 UTC
From: Duncan Munro
Topic: 354 Message: 361

> PS I still have a problem with KGKSDR not seeing either soundcard.
> Should it work with Win98SE?

Hi Neil, it should work with Win98SE not sure why the system is not showing up any soundcards. I'll contact you off list about getting some debug software on the case to find out why...

73,

--
Duncan Munro
M0KGK

362. Status??

Yahoo group: kgksdr
Date: 2006-06-24 11:57:46 UTC
From: n3hkn
Topic: 362 Message: 362

Since I cannot contain my self any longer - Do you anticipate another release of the program? The usual apologies for pressure but I was hooked on the evolutions and now "cold turkey" with #30 in danger of "wearing out".

Currently using SoftRock V6 in the usual Altoids tin with a GAP Challenger vertical. "Backup" is an old Kenwood TS-520S. I plan to use a SoftRock V5 as an IF by picking off the receive signal of the 520 just prior to its xtal filter. Thus I will have a multband SDR with VFO tuning and a preselector tossed in.

Dick N3HKN

363. Re: [kgksdr] Status??

Yahoo group: kgksdr
Date: 2006-06-24 12:09:24 UTC
From: Duncan Munro
Topic: 362 Message: 363

n3hkn wrote:
> Since I cannot contain my self any longer - Do you anticipate another
> release of the program? The usual apologies for pressure but I was
> hooked on the evolutions and now "cold turkey" with #30 in danger of
> "wearing out".
>
> Currently using SoftRock V6 in the usual Altoids tin with a GAP
> Challenger vertical. "Backup" is an old Kenwood TS-520S. I plan to use
> a SoftRock V5 as an IF by picking off the receive signal of the 520
> just prior to its xtal filter. Thus I will have a multband SDR with
> VFO tuning and a preselector tossed in.

Hi Dick there will be more releases of the software but it's going
through a major rewrite at this time.

Version #30 works OK so I'm leaving it alone to concentrate on the "new
generation" :-)

--
Duncan Munro
http://www.m0kgk.co.uk/

364. Live KGKSDR demo

Yahoo group: kgksdr
Date: 2006-07-13 00:58:17 UTC
From: Duncan Munro
Topic: 364 Message: 364

I received a mail from Johan PA3ANG letting me know about his website.
Please check it out, KGKSDR on a website with streaming audio!

http://pa3ang.nl/index.php?php=sdr

73,

Duncan M0KGK

365. Re: [kgksdr] Live KGKSDR demo

Yahoo group: kgksdr
Date: 2006-07-13 01:42:22 UTC
From: Ken N9VV
Topic: 364 Message: 365

Simply amazing! I was bugging Bill KD5TFD about this approx 3 hours
ago! and here it is! wonderful software work!!

have you seen the old Java interface for PSK31?
from the Ukraine http://www.mixw.net/receiver.htm

de ken n9vv

Duncan Munro wrote:
> I received a mail from Johan PA3ANG letting me know about his website.
> Please check it out, KGKSDR on a website with streaming audio!
>
> http://pa3ang.nl/index.php?php=sdr
>
> 73,
>
> Duncan M0KGK
>

366. Re: [kgksdr] Live KGKSDR demo

Yahoo group: kgksdr
Date: 2006-07-13 02:32:14 UTC
From: Duncan Munro
Topic: 364 Message: 366

Ken N9VV wrote:
> Simply amazing! I was bugging Bill KD5TFD about this approx 3 hours
> ago! and here it is! wonderful software work!!
>
> have you seen the old Java interface for PSK31?
> from the Ukraine http://www.mixw.net/receiver.htm

Hi Ken, I did have a look at that some time back but it always seemed to be off air. I'll go and have another look.

On the PA3ANG page, it's currently offline (it's the middle of the night here and in NL) but shows some prerecorded screen shots and sounds - very neat!

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

367. Re: [kgksdr] Live KGKSDR demo

Yahoo group: kgksdr
Date: 2006-07-13 01:34:57 UTC
From: Miura Kazunori
Topic: 364 Message: 367

Hello,

Are you interesting for real streaming reciever?

We start project GlobalAntennaServer.

http://gas.jpn.org/

This project is not complete yet.
You can make it with us.

Cheers,

JA7TDO

----- Original Message -----
From: "Duncan Munro" <m0kgk@...>
To: <kgksdr@yahoogroups.com>
Sent: Thursday, July 13, 2006 9:58 AM
Subject: [kgksdr] Live KGKSDR demo

I received a mail from Johan PA3ANG letting me know about his website.
Please check it out, KGKSDR on a website with streaming audio!

http://pa3ang.nl/index.php?php=sdr

73,

Duncan M0KGK

368. "Unable to locate "processor" performance object." Error Message

Yahoo group: kgksdr
Date: 2006-07-28 01:10:43 UTC
From: Tom
Topic: 368 Message: 368

Hi,

I'm receiving this error message once every second and the only thing to do is close down the M0KGK SDR Decoder program.

I'm running Windows XP Service Pack 2 Home Edition on a AMD Athlon XP 2600+ processor at 1.91 GHz clock with 960 MB RAM.

Rocky, SDRadio and Winrad all work well on my system.

What is this "processor" performance object? Is there a DLL or something I need to download?

Thanks,

Tom

369. Re: [kgksdr] "Unable to locate "processor" performance object." Error Message

Yahoo group: kgksdr
Date: 2006-07-28 05:53:43 UTC
From: Duncan Munro
Topic: 368 Message: 369

Tom wrote:
> Hi,
>
> I'm receiving this error message once every second and the only thing
> to do is close down the M0KGK SDR Decoder program.
>
> I'm running Windows XP Service Pack 2 Home Edition on a AMD Athlon XP
> 2600+ processor at 1.91 GHz clock with 960 MB RAM.
>
> Rocky, SDRadio and Winrad all work well on my system.
>
> What is this "processor" performance object? Is there a DLL or
> something I need to download?

Hi Tom, it's a standard part of the operating system which KGKSDR queries to find out the amount of CPU being used. It should be in every edition of Windows after Windows 98.

Can you also let me know the version of KGKSDR you are using? (it's in Help|About).

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

370. Format not supported while opening soundcard output

Yahoo group: kgksdr
Date: 2006-08-07 17:15:18 UTC
From: joe price
Topic: 370 Message: 370

Hello Duncan,
I get the above message when trying to start program.
I recently upgraded my computer with a Delta 44 replacing
a SB live Ext USB since making this upgrade i've been uunable
to use your program. I have no problem with SD or Rocky.
I'm using WinXP-Pro I tried updating M44 drivers and have both
input and output receiver options set for 96khz and 32 bit.
I can get signal input but no audio if I select the internal soundcard
for the output. I'm using version 5.03.32. Any suggestions?

Tnx Joe wa9cgz

371. Re: [kgksdr] Format not supported while opening soundcard output

Yahoo group: kgksdr
Date: 2006-08-07 17:58:15 UTC
From: Duncan Munro
Topic: 370 Message: 371

joe price wrote:
> Hello Duncan,
> I get the above message when trying to start program.
> I recently upgraded my computer with a Delta 44 replacing
> a SB live Ext USB since making this upgrade i've been uunable
> to use your program. I have no problem with SD or Rocky.
> I'm using WinXP-Pro I tried updating M44 drivers and have both
> input and output receiver options set for 96khz and 32 bit.
> I can get signal input but no audio if I select the internal soundcard
> for the output. I'm using version 5.03.32. Any suggestions?

Hi Joe, this message means that KGKSDR tried to set a certain audio format and the windows driver interface didn't like it.

Sounds like output is the problem, so some things to double check:

1. In the Delta Control Panel, go to the tab marked "Hardware Settings". In the Codec Sample Rate, make sure that the Rate Locked box is NOT checked. While you're there, under MultiTrack Driver Devices, click the Independent radio button - this will cure any problems with slow startup of the D44 card.

2. In KGKSDR Options|Receiver|Hardware check that the Speaker Output Soundcard is either "M-Audio Delta 44 1/2" or "M-Audio Delta 44 3/4"

3. Version 5.03.32 sounds old? I'm using XP with driver version 5.10.0.5051 from last year although there is a build 5052 out now. Might be worth taking another look at the website http://www.maudio.co.uk/index.php?do=support.drivers If you update the drivers, give it a reboot just to be safe.

Hope at least one of the above will cure the problem, the D44 is a killer card for SDR and normally works really well.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

372. Re: Format not supported while opening soundcard output

Yahoo group: kgksdr
Date: 2006-08-07 20:20:53 UTC
From: joe price
Topic: 370 Message: 372

> Hi Joe, this message means that KGKSDR tried to set a certain audio
> format and the windows driver interface didn't like it.
>
> Sounds like output is the problem, so some things to double check:
>
> 1. In the Delta Control Panel, go to the tab marked "Hardware
Settings".
> In the Codec Sample Rate, make sure that the Rate Locked box is
NOT
> checked. While you're there, under MultiTrack Driver Devices,
click the
> Independent radio button - this will cure any problems with slow
> startup of the D44 card.
>
> 2. In KGKSDR Options|Receiver|Hardware check that the Speaker
Output
> Soundcard is either "M-Audio Delta 44 1/2" or "M-Audio Delta 44 3/4"
>
> 3. Version 5.03.32 sounds old? I'm using XP with driver version
> 5.10.0.5051 from last year although there is a build 5052 out now.
> Might be worth taking another look at the website
> http://www.maudio.co.uk/index.php?do=support.drivers If you update
the
> drivers, give it a reboot just to be safe.
>
> Hope at least one of the above will cure the problem, the D44 is a
> killer card for SDR and normally works really well.
>
> 73,
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>
Duncan,
I tried all of the above nothing helped i'm using same driver as you
when I do the install for the Delta I get the folowing message-
not digitally signed but card works with other programs.

Joe

373. Re: [kgksdr] Re: Format not supported while opening soundcard output

Yahoo group: kgksdr
Date: 2006-08-07 22:42:58 UTC
From: Duncan Munro
Topic: 370 Message: 373

joe price wrote:
> I tried all of the above nothing helped i'm using same driver as you
> when I do the install for the Delta I get the folowing message-
> not digitally signed but card works with other programs.

Hi Joe, this is bizarre... Out of the current crop of SDR offerings, KGKSDR should have one of the lower pain thresholds with soundcards as it uses the standard Windows calls rather than WDM or ASIO.

I'll dig out a debug version in the morning (it's late here) and we can try and find out what the software is unhappy with.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

374. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-08-08 09:09:40 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 374

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /Tools/soundcard.zip
Uploaded by : duncanamps <m0kgk@...>
Description : Soundcard capability tester

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/Tools/soundcard.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

duncanamps <m0kgk@...>
```

375. Re: Format not supported while opening soundcard output

Yahoo group: kgksdr
Date: 2006-08-08 09:11:34 UTC
From: Duncan Munro
Topic: 370 Message: 375

--- In kgksdr@yahoogroups.com, "joe price" <joeprice@...> wrote:

> I tried all of the above nothing helped i'm using same driver as you
> when I do the install for the Delta I get the folowing message-
> not digitally signed but card works with other programs.

Hi Joe, I've uploaded the soundcard capability tester to the files area under Tools. It's called soundcard.zip.

Can you run this software and then select/copy/paste the results into an email back to me? Thanks.

73,

Duncan
M0KGK

376. Build 33 now available (FM and peak hold display)

Yahoo group: kgksdr
Date: 2006-08-12 00:09:14 UTC
From: Duncan Munro
Topic: 376 Message: 376

Build 33 is now available for download from http://www.m0kgk.co.uk/sdr/

This has a fledgling FM decode facility built in (not that clever but it works), and a display hold facility which allows the peak level to be shown on the screen.

On Options|Receiver|Display there is a new entry for the hold time. Set it to zero (the default) and the display works as before. Set to a number greater than zero, and that will be the number of seconds before the peak hold starts to disintegrate.

The peak level appears as a ghost image behind the normal spectrum display.

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

377. KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-01 02:19:27 UTC
From: Duncan Munro
Topic: 377 Message: 377

With the big interest right now in the Softrock Exciter project, a small number of prototype kits have been made available. I have been extremely lucky to receive one of the initial batch and have sent it off to KGK Senior (GM4KGK) who has kindly offered to build the hardware while I concentrate on the software.

A version 1.1 of KGKSDR is now being developed using the existing KGKSDR 1.0 base. This will simply be the existing code with TX added and no extra frills.

Initial focus is on CW as this is a superb mode to get some contacts given the very low ~0.5W power level planned for the exciter. Not everyone is into CW, so SSB/FM/AM will follow.

It's all a little early to say, but some of the experiments over the next week or two will look at whether KGKSDR does IAMBIC keying or whether external is needed, also what can be done to reduce latency. Also, I don't think the existing base software will be any good for QSK but it's certainly work a look at improving the latency before KGKSDR 2.0 comes out with optional low-latency TX/RX core and ASIO support.

You will all be familiar with calibrating the RX using a series of maps, either automatically or manually with a signal generator. This is all going to come round again on TX, as this unfortunately has to be calibrated too. The Softrock QSE currently has an RX mute in the design. Do I butcher this and leave RX running while the TX is going? This has the advantage that the (calibrated) RX can be used to auto-calibrate the TX using reduced output levels, the PC can do the audio muting.

It's all questions right now and over the next couple of weeks the questions will turn into answers. Please keep an eye out for further updates!

73,
Duncan M0KGK

378. Welcome to new member

Yahoo group: kgksdr
Date: 2006-10-01 02:26:56 UTC
From: Duncan Munro
Topic: 378 Message: 378

Welcome to Edson N1VTN who has just joined the group. I know from recent emails with João PY2WM that they are both working on an SDR kit known as SDRZero for which I've added an entry in the links section.

No harm repeating it here: http://py2wm.qsl.br/SDR/SDRZero-2.html

73,

Duncan M0KGK

379. Re: Welcome to new member

Yahoo group: kgksdr
Date: 2006-10-02 11:43:46 UTC
From: Edson Pereira
Topic: 378 Message: 379

Hi Duncan,

Thank you very much for the warm welcome.

SDRZero is a simple SoftRock-like receiver for 40m developed during the first semester of this year and introduced to the Brazilian amateur radio community in July.

De Marco and I are currently working on a companion transmitter. Your software is being widely used with the receiver and will certainly continue being used with the future transmitter.

It is very rewarding to see the sinergy that the SDR is bringing to amateur radio.

73,

-- Edson, pu1jte, n1vtn

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> Welcome to Edson N1VTN who has just joined the group. I know from
> recent emails with João PY2WM that they are both working on an SDR kit
> known as SDRZero for which I've added an entry in the links section.
>
> No harm repeating it here: http://py2wm.qsl.br/SDR/SDRZero-2.html
>
> 73,
>
> Duncan M0KGK
>

380. earlier mail

Yahoo group: kgksdr
Date: 2006-10-07 20:28:55 UTC
From: richard
Topic: 380 Message: 380

Hi

re my earlier mail on version compatibility the last version to work
with cxoffice is .29, version up to the current .33
work OK with wine.
I'm now running cxoffice version 5.0.3, Mandriva 2007 CE, Wine 0.9.20

73 Richard

381. Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-08 06:28:04 UTC
From: qrper723
Topic: 377 Message: 381

Duncan,

Hi how are you doing?

I do expect your progress of KGKSDR For SRv6-Exciter.
I'm using the latest version and works very well here!
Looking forward your report...73

ja9mat hidehiko

382. Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-08 15:45:14 UTC
From: Duncan Munro
Topic: 377 Message: 382

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
> Duncan,
>
> Hi how are you doing?
>
> I do expect your progress of KGKSDR For SRv6-Exciter.
> I'm using the latest version and works very well here!
> Looking forward your report...73

Hi Hideheko, I am currently on holiday with a laptop computer working out the TX side! Just trying to get the parallel port and serial ports to talk to the software as we will need key, ptt, tx/rx line etc. More soon...

73,

Duncan M0KGK

383. Re: [kgksdr] Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-08 16:18:13 UTC
From: Bill Tracey
Topic: 377 Message: 383

Hi Duncan,

I'm doing the PowerSDR xmit support. The setup I'll end up using for
serial port control is:

DTR - Keyer common, tied hi
DSR - Dot
CTS - Dash

RTS - T/R out - Hi in Xmit mode, Lo in recv

This does not match the code I've got out there now - I'm revising it so we
can hang a key and the Soft Rock off the same serial port.

Would be good if all of us SW folks try and use the same pins for control.

Regards,

Bill (kd5tfd, PowerSDR SoftRock SW guy)

At 10:45 AM 10/8/2006, Duncan Munro wrote:
<...snip...>
>Hi Hideheko, I am currently on holiday with a laptop computer working
>out the TX side! Just trying to get the parallel port and serial
>ports to talk to the software as we will need key, ptt, tx/rx line
>etc. More soon...
>
>73,
>
>Duncan M0KGK

384. Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-08 17:34:49 UTC
From: Duncan Munro
Topic: 377 Message: 384

--- In kgksdr@yahoogroups.com, Bill Tracey <bill@...> wrote:
> I'm doing the PowerSDR xmit support. The setup I'll end up using for
> serial port control is:
>
> DTR - Keyer common, tied hi
> DSR - Dot
> CTS - Dash
> RTS - T/R out - Hi in Xmit mode, Lo in recv
>
> This does not match the code I've got out there now - I'm revising
it so we
> can hang a key and the Soft Rock off the same serial port.
>
> Would be good if all of us SW folks try and use the same pins for
control.

Hi Bill, a good idea to keep things the same. I will be making the software configurable here so you can pick what pins/ports you like but will arrange for it to default to the lines above on the COM port. That way it will be the same as PowerSDR will be, this makes sense as I know that people like to keep more than one SDR software on their system.

What line do you use for PTT with SSB, or do you just use VOX?

73,

Duncan M0KGK

385. Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-11 10:58:29 UTC
From: Edson Pereira
Topic: 377 Message: 385

Hi Bill and Duncan,

I am also working on the TX side for SDR-Core (DttSP) and SDR-Shell for Linux. I will implement the same specifications as Bill has suggested so that the hardware can work with the same setup under Linux.

Another standardization we could have is which audio channel corresponds to the I and Q signals. I have been using the Left channel for I and Right for Q, but I am not sure what other software authors are using.

73,

-- Edson, pu1jte/n1vtn

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, Bill Tracey <bill@> wrote:
> > I'm doing the PowerSDR xmit support. The setup I'll end up using for
> > serial port control is:
> >
> > DTR - Keyer common, tied hi
> > DSR - Dot
> > CTS - Dash
> > RTS - T/R out - Hi in Xmit mode, Lo in recv
> >
> > This does not match the code I've got out there now - I'm revising
> it so we
> > can hang a key and the Soft Rock off the same serial port.
> >
> > Would be good if all of us SW folks try and use the same pins for
> control.
>
> Hi Bill, a good idea to keep things the same. I will be making the
> software configurable here so you can pick what pins/ports you like
> but will arrange for it to default to the lines above on the COM port.
> That way it will be the same as PowerSDR will be, this makes sense as
> I know that people like to keep more than one SDR software on their
> system.
>
> What line do you use for PTT with SSB, or do you just use VOX?
>
> 73,
>
> Duncan M0KGK
>

386. KGKSDR - TX developments part II

Yahoo group: kgksdr
Date: 2006-10-15 00:13:14 UTC
From: Duncan Munro
Topic: 386 Message: 386

As an interim step to getting the TX hardware working (on CW), I've put together a test rig which takes paddle inputs from a serial port and turns them into CW tones.

This is not something that will transmit using KGKSDR, but merely a test bed that will allow the hardware interfacing to be checked out. SSB fans can probably skip this post, CW afficionados please read on...

The test consists of a CW paddle connected up to various pins on the serial port - these connections are the ones suggested by Bill KD5TFD, and have DTR set to 9-12V from which pullup resistors are connected to the dit and dah on the paddle. Hitting the dit or dah shorts the pullup resistors to ground and allows the software to read that particular input.

There is a zip file in the Files area under KGKSDR TX called keyer6.zip

This file contains the keyer6.exe software and a text file describing the pinout for the serial port so you can connect everything up.

If there are CW fans out there who are prepared to give up a little time to test the software, I would appreciate it. The test software won't transmit as mentioned previously, but the actual code will be used in KGKSDR if it all pans out OK.

Some additional info that might be of use:

* The serial ports run in the range COM1 to COM12 although this will probably be expanded later up to COM256.

* El Cheapo serial<->USB converters off eBay work just fine (I'm using one right now).

* ASIO drivers are now used. There is no way the standard Windows interface to the soundcard will get the latency down to the sort of figures we need, hence the move to ASIO. As well as the Delta 66 down in the shack, I'm getting good results using the onboard cheap crap AC97 chipset + ASIO4ALL software. If you have a non-ASIO soundcard, pls download the ASIO4ALL software from http://www.asio4all.com/

* Due to the strict timing and use of the QueryPerformanceCounter API, I don't think there will be a hope in hell of the software working on Win95/Win98. Target OS is now Windows NT, 2000, XP Home, XP Pro.

Would appreciate any feedback on the software, hopefully the operation is fairly self explanatory but pls shout if there are any questions.

Finally, a "thank you" to Ekkehard Domning in Germany who has given permission for the superb serial port software to be used as part of KGKSDR.

73 ES GL DE M0KGK !

387. Re: [kgksdr] Re: KGKSDR - TX developments

Yahoo group: kgksdr
Date: 2006-10-15 12:44:46 UTC
From: Bill Tracey
Topic: 377 Message: 387

From a post on the soft-radio list from Alberto (I2PHD):

>"To complement the correct steps given by Beppe, I would like to add
>that you have in addition to check the choice "Swap I/Q channels".
>Flexradio decided to not follow the otherwise almost general rule of
>putting the I signal on the Left channel (the tip of the jack), and
>the Q signal on the Right channel (the ring of the jack), but just the
>opposite. That's why I implemented that reversing option.

Apparently most programs take IQ as LR while it looks like the SDR 1000
does IQ as RL - so some option to swap IQ is probably a good idea for
software. I don't believe PowerSDR has such an option at the moment --
will look to add one next time I'm mucking around in that area of the code.

As to PTT -- for PowerSDR on the SoftRock I'm taking either Dor or Dash as
PTT when not in a CW mode.

Regards,

Bill (kd5tfd)

At 05:58 AM 10/11/2006, Edson Pereira wrote:

>Hi Bill and Duncan,
>
>I am also working on the TX side for SDR-Core (DttSP) and SDR-Shell
>for Linux. I will implement the same specifications as Bill has
>suggested so that the hardware can work with the same setup under Linux.
>
>Another standardization we could have is which audio channel
>corresponds to the I and Q signals. I have been using the Left channel
>for I and Right for Q, but I am not sure what other software authors
>are using.
>
>73,
>
>-- Edson, pu1jte/n1vtn
>
>--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
> >
> > --- In kgksdr@yahoogroups.com, Bill Tracey <bill@> wrote:
> > > I'm doing the PowerSDR xmit support. The setup I'll end up using for
> > > serial port control is:
> > >
> > > DTR - Keyer common, tied hi
> > > DSR - Dot
> > > CTS - Dash

> > > RTS - T/R out - Hi in Xmit mode, Lo in recv
> > >
> > > This does not match the code I've got out there now - I'm revising
> > it so we
> > > can hang a key and the Soft Rock off the same serial port.
> > >
> > > Would be good if all of us SW folks try and use the same pins for
> > control.
> >
> > Hi Bill, a good idea to keep things the same. I will be making the
> > software configurable here so you can pick what pins/ports you like
> > but will arrange for it to default to the lines above on the COM port.
> > That way it will be the same as PowerSDR will be, this makes sense as
> > I know that people like to keep more than one SDR software on their
> > system.
> >
> > What line do you use for PTT with SSB, or do you just use VOX?
> >
> > 73,
> >
> > Duncan M0KGK
> >

388. Re: [softrock40] Wine

Yahoo group: kgksdr
Date: 2006-10-29 08:58:21 UTC
From: David
Topic: 388 Message: 388

I just installed KGKSDR on the Ubuntu system using Wine. It works except for 2 problems. It seems to be reading the same input for both channels(cal graph says phase error = 89.999, and no sideband rejection). Also, cannot change the center freq. display even though I can store a frequency in the frequency list. The program works great on Windows, so it isn't the board or cabling. One thing I do different, I use the CD in rather than Line IN (I use that for the TV tuner board).

Dave - WB6DHW

> KGKSDR runs well using wine
> Winrad used to run better in CXOfffice, under Mandriva 2007 it has
> better performance using just wine
> Linrad is native to linux.
> Rocky never will due to direct calls.
> I havn't tried any of the others in the last few months.
> The really nice thing with linux is that the s/w is open source, no-ones
> trying to make a fast buck !
>
> HTH
> Richard g8jvm
>

389. Re: [kgksdr] Re: [softrock40] Wine

Yahoo group: kgksdr
Date: 2006-10-29 10:47:07 UTC
From: richard
Topic: 388 Message: 389

David wrote:
>
> I just installed KGKSDR on the Ubuntu system using Wine. It works
> except for 2 problems. It seems to be reading the same input for both
> channels(cal graph says phase error = 89.999, and no sideband
> rejection). Also, cannot change the center freq. display even though I
> can store a frequency in the frequency list. The program works great on
> Windows, so it isn't the board or cabling. One thing I do different, I
> use the CD in rather than Line IN (I use that for the TV tuner board).
>
> Dave - WB6DHW
>

HI Dave
I dont have any problems changing the frequency display.

Try options>receiver>frequencies
add what ever you want
apply>OK

then select on the pulldown under "slow"

Not sure with phase error
As for using CD in, I get around that by hard wiring my TV tuner to the
AUX connector on the mobo.

Richard

390. Using M0KGKSDR with a VHF/UHF down converter

Yahoo group: kgksdr
Date: 2006-10-29 19:33:48 UTC
From: jeanrenier2004
Topic: 390 Message: 390

Hello Duncan and KGKSDR group,

I have been using M0KGKSDR with great pleasure since a while, and I like it very much. It is really a fine piece of software engineering, a step forward in popularising SDR.
I use it for all kind of SW listening (especially the digital modes), mainly with an home made receiver front end (a Flex Radio - 1000 look alike) and occasionally with the SR40 front end (for more about that see http://users.telenet.be/jean.taeymans/).

I am currently building a UHF/VHF down converter based on a salvaged digital TV tuner as a front end to the SR40. It may not be perfect, but it will expand my listening abilities into the UHF. I wrote a small application in VB6 to control the PLL of the digital tuner (in steps of 62.5kHz !). It would now be nice to have some kind of an API in M0KGKSDR to synchronise the frequency scale with that of my little control application, rather than do it manually through "Option", "Receiver", Any chance for that in the near future ?

Furthermore, and since I am interested in the VHF/UHF, I have been testing the FM demodulator of version 1.0.1.33, injecting a 7040kHz signal in the SR40 modulated with a 400Hz signal and 2.5kHz deviation. It works ok, but the AF signal is very weak (not really exploitable) and the S-meter is kind of blocked at S9+50 whatever the signal at the input. Any future plans with this ?

I use a Sound Blaster Audigy SE, which is very affordable and has (according to Creative Labs) 96ks/s 24bit converters, input and output. Soundcard.exe nevertheless indicates the following (shortened):

```
Checking input device Sound Blaster Audigy
Sound Blaster Audigy: 96000/24
MMSystem reports code: 0 (No error)

Checking output device Sound Blaster Audigy
Sound Blaster Audigy: 96000/24
MMSystem reports code: 32 (Format not supported)
```

As if the 96000/24 mode would not be supported. Any comments ?
Also, according to RMAA5.5 it is available.

All the best.

391. Re: [kgksdr] Using M0KGKSDR with a VHF/UHF down converter

Yahoo group: kgksdr
Date: 2006-10-29 20:24:20 UTC
From: Duncan Munro
Topic: 390 Message: 391

jeanrenier2004 wrote:
> I am currently building a UHF/VHF down converter based on a salvaged
> digital TV tuner as a front end to the SR40. It may not be perfect,
> but it will expand my listening abilities into the UHF. I wrote a
> small application in VB6 to control the PLL of the digital tuner (in
> steps of 62.5kHz !). It would now be nice to have some kind of an
> API in M0KGKSDR to synchronise the frequency scale with that of my
> little control application, rather than do it manually
> through "Option", "Receiver", ? Any chance for that in the near
> future ?

Yes, the whole issue of frequency control is something that needs
opening up. KGKSDR V2 will have open interfaces, and the frequency
selection/display will be one of them. In terms of timing, KGKSDR V2 is
still quite far away as effort is being put into KGKSDR 1.1 (with TX
operation for Softrock Exciter).

> Furthermore, and since I am interested in the VHF/UHF, I have been
> testing the FM demodulator of version 1.0.1.33, injecting a 7040kHz
> signal in the SR40 modulated with a 400Hz signal and 2.5kHz
> deviation. It works ok, but the AF signal is very weak (not really
> exploitable) and the S-meter is kind of blocked at S9+50 whatever
> the signal at the input. Any future plans with this ?

The FM side of things was thrown together just to see if it would work,
and has many faults! Once the TX side of KGKSDR is sorted out I can
look at the FM side again. Another item that needs looking at is IF
output so DRM software can be used.

> Checking output device Sound Blaster Audigy
> Sound Blaster Audigy: 96000/24
> MMSystem reports code: 32 (Format not supported)

Does the software list 48000/24 as being OK? I ask because sometimes
the soundblaster software uses a utility program which sets the maximum
input or output samplerates.

--
Duncan Munro
http://www.m0kgk.co.uk/

392. Re: [kgksdr] Using M0KGKSDR with a VHF/UHF down converter

Yahoo group: kgksdr
Date: 2006-10-30 18:56:10 UTC
From: Jean Taeymans
Topic: 390 Message: 392
Attachments: 1 described; binary payloads are missing from this source WARC

Duncan,

Thanks for the answers, looking forward for the next versions of M0KGKSDR.

As for the soundcard.exe test results for the Audigy board, you are right in fact all 24bit and 32bit mode are not supported regardless of the sampling speed. See result in attachment.

Another question, as you are working on the support for the SR exciter, would this version require two sound boards ? (or one with four channels, such as the Delta-44): such as stereo "line in" from the SR QSD, stereo "line out" to the SR exciter, Mono "mic in" for the microphone and Mono/stereo "line out" for the headphones. Will the selection of each be configurable through the "Options" / "Receiver" / "Hardware" tab ?

All the best,
Jean.

----- Original Message -----
From: "Duncan Munro" <m0kgk@...>
To: <kgksdr@yahoogroups.com>
Sent: Sunday, October 29, 2006 9:24 PM
Subject: Re: [kgksdr] Using M0KGKSDR with a VHF/UHF down converter

> jeanrenier2004 wrote:
>> I am currently building a UHF/VHF down converter based on a salvaged
>> digital TV tuner as a front end to the SR40. It may not be perfect,
>> but it will expand my listening abilities into the UHF. I wrote a
>> small application in VB6 to control the PLL of the digital tuner (in
>> steps of 62.5kHz !). It would now be nice to have some kind of an
>> API in M0KGKSDR to synchronise the frequency scale with that of my
>> little control application, rather than do it manually
>> through "Option", "Receiver", ? Any chance for that in the near
>> future ?
>
> Yes, the whole issue of frequency control is something that needs
> opening up. KGKSDR V2 will have open interfaces, and the frequency
> selection/display will be one of them. In terms of timing, KGKSDR V2 is
> still quite far away as effort is being put into KGKSDR 1.1 (with TX
> operation for Softrock Exciter).
>
>> Furthermore, and since I am interested in the VHF/UHF, I have been
>> testing the FM demodulator of version 1.0.1.33, injecting a 7040kHz
>> signal in the SR40 modulated with a 400Hz signal and 2.5kHz
>> deviation. It works ok, but the AF signal is very weak (not really

>> exploitable) and the S-meter is kind of blocked at S9+50 whatever
>> the signal at the input. Any future plans with this ?
>
> The FM side of things was thrown together just to see if it would work,
> and has many faults! Once the TX side of KGKSDR is sorted out I can
> look at the FM side again. Another item that needs looking at is IF
> output so DRM software can be used.
>
>> Checking output device Sound Blaster Audigy
>> Sound Blaster Audigy: 96000/24
>> MMSystem reports code: 32 (Format not supported)
>
> Does the software list 48000/24 as being OK? I ask because sometimes
> the soundblaster software uses a utility program which sets the maximum
> input or output samplerates.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date:
> 27/10/2006
>
>

393. Re: [kgksdr] Using M0KGKSDR with a VHF/UHF down converter

Yahoo group: kgksdr
Date: 2006-10-30 19:26:58 UTC
From: Duncan Munro
Topic: 390 Message: 393

Jean Taeymans wrote:
> Duncan,
>
> Thanks for the answers, looking forward for the next versions of M0KGKSDR.
>
> As for the soundcard.exe test results for the Audigy board, you are right in
> fact all 24bit and 32bit mode are not supported regardless of the sampling
> speed. See result in attachment.
>
> Another question, as you are working on the support for the SR exciter,
> would this version require two sound boards ? (or one with four channels,
> such as the Delta-44): such as stereo "line in" from the SR QSD, stereo
> "line out" to the SR exciter, Mono "mic in" for the microphone and
> Mono/stereo "line out" for the headphones. Will the selection of each be
> configurable through the "Options" / "Receiver" / "Hardware" tab ?

There are two option screens for hardware in the version 1.1 I'm developing:

Options --> Transceiver --> RX Hardware
Options --> Transceiver --> TX Hardware

You can use two soundboards, I'm doing the development work here with the AC97 and Soundblaster Live! 24, but you can use a single 4 channel board like the Delta 44 or Delta 66 if you wish.

When I get down to shack testing, I will be using the Delta 66 for IQ in, IQ out, Mic in, and the AC97 on the shack machine for speaker out (simply because I have some speakers permanently plugged into it!) so it will be possible to mix and match.

--
Duncan Munro
http://www.m0kgk.co.uk/

394. IQOUT: Test tool for SDR transmitters

Yahoo group: kgksdr
Date: 2006-11-05 18:37:03 UTC
From: Duncan Munro
Topic: 394 Message: 394

For those doing the run of the latest Softrock transmitter, I've put together a test tool to exercise the TX side.

As well as the mandatory tone generation with 90 degree spacing, it also has adjustments for the following:

* Overall output
* Frequency
* I/Q amplitude ratio
* I/Q phase difference
* Mute left or right

It will use either normal Windows driver soundcards or ASIO cards for output. Finally, it can key the Softrock TX on and off using the serial port.

The mute left or right might seem a bit pointless, but I've been suffering from 100% imaging on TX output. Muting left makes the TX silent, muting right does nothing so that gives me a few clues as to where to look :-)

Download is from http://www.m0kgk.co.uk/sdr/download.php second item on the list.

73,

Duncan M0KGK

395. Re: IQOUT: Test tool for SDR transmitters

Yahoo group: kgksdr
Date: 2006-11-10 07:09:36 UTC
From: josephlevy
Topic: 394 Message: 395

Hello Duncan

Using the IQgenerator (works with windows drivers and asio4all as advertized...) easy to balance an cancell the other sideband.

Now just add the input from a selected sound device and we have a SSB TX capability.

I found that using 96khz the output is still +/- 24 khz (although the display says 48 khz).

I have a request for the SDR RX program, can you add a mute (or pan) to a selected (right or left) channel?

It will be very usefull when using two instances of the program to have two saparate RX (like a watch receiver..)
Thanks Joe

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> For those doing the run of the latest Softrock transmitter, I've put
> together a test tool to exercise the TX side.
>
> As well as the mandatory tone generation with 90 degree spacing, it
> also has adjustments for the following:
>
> * Overall output
> * Frequency
> * I/Q amplitude ratio
> * I/Q phase difference
> * Mute left or right
>
> It will use either normal Windows driver soundcards or ASIO cards
for
> output. Finally, it can key the Softrock TX on and off using the
> serial port.
>
> The mute left or right might seem a bit pointless, but I've been
> suffering from 100% imaging on TX output. Muting left makes the TX
> silent, muting right does nothing so that gives me a few clues as to
> where to look :-)
>
> Download is from http://www.m0kgk.co.uk/sdr/download.php second
item
> on the list.
>

> 73,
>
> Duncan M0KGK
>

396. Re: [kgksdr] Re: IQOUT: Test tool for SDR transmitters

Yahoo group: kgksdr
Date: 2006-11-10 16:19:50 UTC
From: Duncan Munro
Topic: 394 Message: 396

josephlevy wrote:
> Hello Duncan
>
> Using the IQgenerator (works with windows drivers and asio4all as
> advertized...) easy to balance an cancell the other sideband.

Thanks for the feedback and good to see that you ran a cancellation experiment. It's looking more likely that the 'cal' for transmission is going to be manual.

> Now just add the input from a selected sound device and we have a SSB
> TX capability.

As you have probably guessed, there's a bit more to it than that like mixing to the right frequency but KGKSDR 1.1 will have SSB in it. I'm hoping to get the hardware changes done this weekend so I can start proper TX testing.

> I found that using 96khz the output is still +/- 24 khz (although the
> display says 48 khz).

On ASIO4all I can select 96khz on the internal AC97 card but it won't do it, the output just comes out at half speed - this is something I need to watch.

> I have a request for the SDR RX program, can you add a mute (or pan)
> to a selected (right or left) channel?
>
> It will be very usefull when using two instances of the program to
> have two saparate RX (like a watch receiver..)

It's unlikely to end up in 1.1 but is a definite for version 2.0. V2 will have RXA, RXB, TX in a rack format. TX can be linked to RXA or RXB, allowing split operation for contests and so on.

If your PC has enough power, it will also be possible to have RXA in the left ear and RXB in the right so you can spot the frequency you are about to transmit on as well as hear the DX station.

Not related to your note but just as a general bit of info, I've now put a Softrocks page up on the M0KGK web site that might be of interest to people:

http://www.m0kgk.co.uk/sdr/softrocks.php

--
Duncan Munro
http://www.m0kgk.co.uk/

397. Re: IQOUT: Test tool for SDR transmitters

Yahoo group: kgksdr
Date: 2006-11-10 16:55:51 UTC
From: josephlevy
Topic: 394 Message: 397

Super!
--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> josephlevy wrote:
> > Hello Duncan
> >
> > Using the IQgenerator (works with windows drivers and asio4all as
> > advertized...) easy to balance an cancell the other sideband.
>
> Thanks for the feedback and good to see that you ran a cancellation
> experiment. It's looking more likely that the 'cal' for
transmission is
> going to be manual.
>
> > Now just add the input from a selected sound device and we have a
SSB
> > TX capability.
>
> As you have probably guessed, there's a bit more to it than that
like
> mixing to the right frequency but KGKSDR 1.1 will have SSB in it.
I'm
> hoping to get the hardware changes done this weekend so I can start
> proper TX testing.
>
> > I found that using 96khz the output is still +/- 24 khz (although
the
> > display says 48 khz).
>
> On ASIO4all I can select 96khz on the internal AC97 card but it
won't do
> it, the output just comes out at half speed - this is something I
need
> to watch.
>
> > I have a request for the SDR RX program, can you add a mute (or
pan)
> > to a selected (right or left) channel?
> >
> > It will be very usefull when using two instances of the program
to
> > have two saparate RX (like a watch receiver..)
>
> It's unlikely to end up in 1.1 but is a definite for version 2.0.
V2

> will have RXA, RXB, TX in a rack format. TX can be linked to RXA
or
> RXB, allowing split operation for contests and so on.
>
> If your PC has enough power, it will also be possible to have RXA
in the
> left ear and RXB in the right so you can spot the frequency you are
> about to transmit on as well as hear the DX station.
>
> Not related to your note but just as a general bit of info, I've
now put
> a Softrocks page up on the M0KGK web site that might be of interest
to
> people:
>
> http://www.m0kgk.co.uk/sdr/softrocks.php
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

398. KGKSDR Version 1.1

Yahoo group: kgksdr
Date: 2006-11-13 19:31:42 UTC
From: Duncan Munro
Topic: 398 Message: 398

Version 1.1 is the type number for the Transceiver version of KGKSDR. There is no TX on there yet, however... the audio side of the receiver has been completely rewritten to use ASIO drivers in order to prepare the ground for the transmitter.

This gets the latency down by a good amount and the reason for me releasing 1.1 with no TX is to see what kind of feedback I get and how KGKSDR users get on with ASIO.

V1.1 will coexist along with your earlier 1.0 so you don't lose anything. If you are lucky enough to have a Delta 44 or other premium card, ASIO drivers will already been included and you just need to set the soundcards.

For those with non-ASIO compliant cards, there is a great piece of software called ASIO4all which makes your soundcard look like an ASIO card. I'm using it on the test machine with the onboard AC97 and Soundblaster Live! 24 to give me 2 pairs of input and output for very little money :-)

Downloads:

KGKSDR 1.1 from
http://www.m0kgk.co.uk/sdr/download.php

ASIO4all from
http://www.asio4all.com/

Some other changes along the way:

* The calibration charts have had some changes to the popup menus for amplitude and phase. You can now eliminate rogue points by right clicking and deleting points which are more than a certain distance from the trend line.

* Talking of the trend line, there are now two. One for the negative frequencies and one for the positive frequencies. This gives a better fit and should give better cancellation of images. These don't alter your existing maps, so if you revert back to KGKSDR 1.0 it won't cause a problem.

* Receiver now starts automatically, there is no concept of a start and a stop button any more.

* The way the recording has been implemented has changed, now 16 bits whatever the input.

* The input buffer and output buffer gauges at the bottom of the screen have gone along with the buffers and their associated long delay.

A bit of advice, if you get cracks/pops/thumps/clicks, please make the buffer size a little larger in your ASIO driver control panel. You can get to the control panel from Options -> Transceiver -> Hardware.

If any of the changes above cause a problem, pls post back here and let me know. Thanks.

73,

Duncan
M0KGK

399. KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-13 21:17:15 UTC
From: Duncan Munro
Topic: 399 Message: 399

Apologies to anyone who has recently tried to get the new 1.1 file.
The link on the download page was pointing to the _old_ file, i.e. the receiver.

This has now been fixed and your download should pull a file called kgksdr11.exe

When installing it will say M0KGK SDR Transceiver and the version number will be 1.1

73,

Duncan
M0KGK

400. Re: KGKSDR Version 1.1

Yahoo group: kgksdr
Date: 2006-11-14 16:52:43 UTC
From: josephlevy
Topic: 398 Message: 400

Hi Duncan

By using version 1.1 I lost the ability to run 2 instances of the program (still works with 1.033)
Its the same with other programs once you go to the ASIO drivers (Winrad and PowerDR)

I'll be patient and wait for the next inovations...

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> Version 1.1 is the type number for the Transceiver version of KGKSDR.
> There is no TX on there yet, however... the audio side of the
> receiver has been completely rewritten to use ASIO drivers in order to
> prepare the ground for the transmitter.
>
> This gets the latency down by a good amount and the reason for me
> releasing 1.1 with no TX is to see what kind of feedback I get and how
> KGKSDR users get on with ASIO.
>
> V1.1 will coexist along with your earlier 1.0 so you don't lose
> anything. If you are lucky enough to have a Delta 44 or other premium
> card, ASIO drivers will already been included and you just need to set
> the soundcards.
>
> For those with non-ASIO compliant cards, there is a great piece of
> software called ASIO4all which makes your soundcard look like an ASIO
> card. I'm using it on the test machine with the onboard AC97 and
> Soundblaster Live! 24 to give me 2 pairs of input and output for very
> little money :-)
>
> Downloads:
>
> KGKSDR 1.1 from
> http://www.m0kgk.co.uk/sdr/download.php
>
> ASIO4all from
> http://www.asio4all.com/
>

> Some other changes along the way:
>
> * The calibration charts have had some changes to the popup menus
for
> amplitude and phase. You can now eliminate rogue points by right
> clicking and deleting points which are more than a certain distance
> from the trend line.
>
> * Talking of the trend line, there are now two. One for the
negative
> frequencies and one for the positive frequencies. This gives a
better
> fit and should give better cancellation of images. These don't
alter
> your existing maps, so if you revert back to KGKSDR 1.0 it won't
cause
> a problem.
>
> * Receiver now starts automatically, there is no concept of a start
> and a stop button any more.
>
> * The way the recording has been implemented has changed, now 16
bits
> whatever the input.
>
> * The input buffer and output buffer gauges at the bottom of the
> screen have gone along with the buffers and their associated long
delay.
>
> A bit of advice, if you get cracks/pops/thumps/clicks, please make
the
> buffer size a little larger in your ASIO driver control panel. You
> can get to the control panel from Options -> Transceiver ->
Hardware.
>
> If any of the changes above cause a problem, pls post back here and
> let me know. Thanks.
>
> 73,
>
> Duncan
> M0KGK
>

401. Re: [kgksdr] Re: KGKSDR Version 1.1

Yahoo group: kgksdr
Date: 2006-11-14 19:11:35 UTC
From: Duncan Munro
Topic: 398 Message: 401

josephlevy wrote:
> Hi Duncan
>
> By using version 1.1 I lost the ability to run 2 instances of the
> program (still works with 1.033)
> Its the same with other programs once you go to the ASIO drivers
> (Winrad and PowerDR)
>
> I'll be patient and wait for the next inovations...

Hmmm... that is a point that I hadn't thought of, thanks for letting us know.

V2.0 will have dual receive but for now it should be possible to run the old KGKSDR alongside the ASIO version 1.1 to get 2 instances.

--
Duncan Munro
http://www.m0kgk.co.uk/

402. Re: [kgksdr] KGKSDR Version 1.1

Yahoo group: kgksdr
Date: 2006-11-14 21:02:33 UTC
From: Guido
Topic: 398 Message: 402
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

403. Re: [kgksdr] KGKSDR Version 1.1

Yahoo group: kgksdr
Date: 2006-11-15 00:04:43 UTC
From: Duncan Munro
Topic: 398 Message: 403

Guido wrote:
> Hello Duncan,
>
> What a surprise to get already a glimpse of the new kitchen!
> All went well. It did recognize my soundcards (AC97 & SB) via ASIO
> immediately. A considerable shorter propagation time is sensible for the
> received signal.

Hi Guido, yes you have noticed that the latency (propagation) is down really low. The nice thing is that it will get down even more for fast CW QSK operation. I don't want to get too hung up about that right now, but that's the way it's going in the future...

> One thing is that with the new version is that it lost the possibility
> to sample at 96kHz because my other soundcard highest sample rate is
> 48kHz. Understand this would require some resampling in the software.

I'm guessing that you are using ASIO4all. One of the things I've found with it is that the input sampling rate seems to be at the lowest common denominator. For example, I have the SB Live! 24 which is a superb card for very little $$$'s and will sample at 96k, but the onboard AC97 chipset is holding things back to 48k.

In time, I will be providing Windows drivers again as well as ASIO so you will have a choice.

> I am very very curious how things on the transmitter site will fall
> together. Would it possible to do a full duplex receive while transmit
> option, so that transmitted spectrum can be monitored in the v6 RXTX
> SoftRock board :) ??, and more of these nifty TX features.

During receive or transmission, the RX and TX will both be running at all times (and yes, the spectrum will be displayed). On the Softrock group I had suggested an option to switch off the RX mute so that the transmitter could be monitored.

The reality is, there is maybe too much leakage from the TX into the RX anyway so that suggestion was badly thought out.

> ...yes, I know, still dreaming too much: would you like some
> contribution...?

The best contribution that you (and others!) can provide is to check out the software and see if it runs OK. Please tell me if it's good, please tell me if it's bad. I need to know honestly what people are finding so that I can feed that back into the design and we can take things forward...

73,

--
Duncan Munro
http://www.m0kgk.co.uk/

404. kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-15 08:48:15 UTC
From: gw4evj
Topic: 404 Message: 404

Hello Duncan,
Trying out kgksdr 1.1 and getting the following message.
Access Violation at Address 00403917
in module kgksdr11.exe
Write of address 01903830.
Not sure what this means.
Previous version still working fine with Softrock-40
and SB Audigy 2ZS.
73 George

405. Re: kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-15 12:40:07 UTC
From: n3hkn
Topic: 404 Message: 405

Try deleting the calibration entries in this folder:

D:\Documents and Settings\system name\Application Data\Duncan Amplification

Dick N3HKN

--- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@...> wrote:
>
> Hello Duncan,
> Trying out kgksdr 1.1 and getting the following message.
> Access Violation at Address 00403917
> in module kgksdr11.exe
> Write of address 01903830.
> Not sure what this means.
> Previous version still working fine with Softrock-40
> and SB Audigy 2ZS.
> 73 George
>

406. New V 1.1 Calibration??

Yahoo group: kgksdr
Date: 2006-11-15 12:48:33 UTC
From: n3hkn
Topic: 406 Message: 406

I cannot get the calibration to work. Old V 33 works ok with good nulls. I am not sure which of the Speaker Out options to use. Only #7 and #5 produce sound. Using the Sb 24 Live 96khz(PCI) card. Latest ASIO V2.

It seems that the calibration routine becomes confused as to which section (upper/lower) contains the real signal. With the calibration reset both signals (real & imaginary) are about the same amplitude. When I do a manual calibration the best it can do is 10db suppression. I assume that the Speaker Out selections are for reversing the I/Q and or a sample delay. If that guess is correct there should be an odd number of selections???

Any hints?

Regards,
Dick N3HKN

407. V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-15 13:18:02 UTC
From: n3hkn
Topic: 407 Message: 407

After about 5 to 10 minutes the program jumps to 100% cpu as shown in the Task Manager. The program's CPU freezes at 57%. It continues to provide receive audio but the screen is stopped. Killing via the (X) and restarting is ok for awhile.

SB live 24, ASIO V2 Softrock V6

Dick N3HKN

408. Re: [kgksdr] New V 1.1 Calibration??

Yahoo group: kgksdr
Date: 2006-11-15 14:04:26 UTC
From: Duncan Munro
Topic: 406 Message: 408

n3hkn wrote:
> I cannot get the calibration to work. Old V 33 works ok with good
> nulls. I am not sure which of the Speaker Out options to use. Only #7
> and #5 produce sound. Using the Sb 24 Live 96khz(PCI) card. Latest
> ASIO V2.
>
> It seems that the calibration routine becomes confused as to which
> section (upper/lower) contains the real signal. With the calibration
> reset both signals (real & imaginary) are about the same amplitude.
> When I do a manual calibration the best it can do is 10db suppression.
> I assume that the Speaker Out selections are for reversing the I/Q and
> or a sample delay. If that guess is correct there should be an odd
> number of selections???
>
> Any hints?

Hi Dick, I think I know the answer to this one too. ASIO4all is
replicating the sample slip problem in the soundard, and the new KGKSDR
does not have the delay left/right option to deal with it.

I'll add that into the ASIO version as the SB Live! 24 is a popular card.

--
Duncan Munro
http://www.m0kgk.co.uk/

409. Re: [kgksdr] V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-15 14:02:06 UTC
From: Duncan Munro
Topic: 407 Message: 409

n3hkn wrote:
> After about 5 to 10 minutes the program jumps to 100% cpu as shown in
> the Task Manager. The program's CPU freezes at 57%. It continues to
> provide receive audio but the screen is stopped. Killing via the (X)
> and restarting is ok for awhile.
>
> SB live 24, ASIO V2 Softrock V6

Hi Dick, this freeze has only just started happening to me also. It
does it when the calibration charts window is open and I think I know
why... When left in normal RX mode, it runs hour after hour no problem.

Have you got the calibration chart window open when it freezes up???

--
Duncan Munro
http://www.m0kgk.co.uk/

410. Re: V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-15 19:51:56 UTC
From: n3hkn
Topic: 407 Message: 410

I had it happen 3 times but I do not recall the conditions in any case. I was more interested in a way to get out gracefully which ended up in the Task Manager. I have tried the program with and without the calibration display but have not seen the condition yet.

Would it be possible to replace the clicking areas in the calibration window with a slider which is easier to adjust than dozens of clicks....

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > After about 5 to 10 minutes the program jumps to 100% cpu as shown in
> > the Task Manager. The program's CPU freezes at 57%. It continues to
> > provide receive audio but the screen is stopped. Killing via the (X)
> > and restarting is ok for awhile.
> >
> > SB live 24, ASIO V2 Softrock V6
>
> Hi Dick, this freeze has only just started happening to me also. It
> does it when the calibration charts window is open and I think I know
> why... When left in normal RX mode, it runs hour after hour no problem.
>
> Have you got the calibration chart window open when it freezes up???
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

411. Re: V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-15 20:06:23 UTC
From: n3hkn
Topic: 407 Message: 411

Try closing the new program and then starting V1.1. In my system I end up with 33 starting AND 1.1 starting. Now have both running. Something you may not notice at first.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > After about 5 to 10 minutes the program jumps to 100% cpu as shown in
> > the Task Manager. The program's CPU freezes at 57%. It continues to
> > provide receive audio but the screen is stopped. Killing via the (X)
> > and restarting is ok for awhile.
> >
> > SB live 24, ASIO V2 Softrock V6
>
> Hi Dick, this freeze has only just started happening to me also. It
> does it when the calibration charts window is open and I think I know
> why... When left in normal RX mode, it runs hour after hour no problem.
>
> Have you got the calibration chart window open when it freezes up???
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

412. Re: [kgksdr] KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-15 21:30:42 UTC
From: Jean Taeymans
Topic: 399 Message: 412

Duncan,

I consider it as a privilege to contribute a tiny bit to the birth of this remarkable application, hence my few remarks that are probably nothing more than a confirmation of what others have previously written.

I downloaded "kgksdr11_37.exe" after having played a bit with "kgksdr11.exe", except for the 1 bit delay on one of the channels, and the subsequent improvement on side band suppression (which I didn't yet test thoroughly), my observations are pretty much the same for both versions. Most of them have to do with the setting of the sound board.

I use two boards: the SB Audigy SE and the SB PCI128, I enabled both with ASIO4ALL and I could select either of them for the RX input and the RX output.
I remarked however that changing settings in the ASIO4ALL control panel do not have an immediate effect on KGKSDR, one needs to exit and re-enter the "option/transceiver" window
The most annoying thing is of course that the sample frequency can not be selected independently for each board (a limitation in ASIO4ALL ? can the sample depth be chosen ?).
What I (obviously) would like to do is to have the best sound board (speed and sample depth) for the transceiver part, and the next best one for the loudspeaker/microphone.
When selecting 96kHz nevertheless, a message will appear on exiting the "option/transceiver" window but no correction will be made, i.e. forcing to 48kHz.
Further testing it at 48kHz, I tried with VAC (version 4, ASIO4ALL enabled) as output, which seems to work, I even could connect it to MULTIPSK. Having "Audio Repeater" (from the virtual cable to the SB PCI128, in order to monitor the signal) on the same virtual cable would only work if "Audio Repeater" was started before MULTIPSK, but I guess this has nothing to do with KGKSDR.
Trying to run the above at 96kHz got me in a severe dead lock situation, where I had to delete all KGKSDR related files and entries and reinstall the program.

I hope this will help you a bit already, I will continue tot test KGKSDR1.1 over the week end.

All the best,
Jean.

----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Monday, November 13, 2006 10:17 PM
Subject: [kgksdr] KGKSDR download link

Apologies to anyone who has recently tried to get the new 1.1 file.
The link on the download page was pointing to the _old_ file, i.e. the receiver.

This has now been fixed and your download should pull a file called kgksdr11.exe

When installing it will say M0KGK SDR Transceiver and the version number will be 1.1

73,

Duncan
M0KGK

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.430 / Virus Database: 268.14.3/531 - Release Date: 12-11-2006 19:34

413. Re: [kgksdr] KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-16 00:13:55 UTC
From: Duncan Munro
Topic: 399 Message: 413

Jean Taeymans wrote:

> The most annoying thing is of course that the sample frequency can not
> be selected independently for each board (a limitation in ASIO4ALL
> ? can the sample depth be chosen ?). What I (obviously) would like
> to do is to have the best sound board (speed and sample depth) for the
> transceiver part, and the next best one for the loudspeaker/microphone.

Hi Jean, the depth cannot be chosen. The ASIO host code that I use from
Toby Bear and Christian Budde in Germany presents the samples as either
a single (floating point value occupying 32 bits in total) or double
(floating point value occupying 64 bits in total).

The former is used within KGKSDR 1.1 as this is still quite adequate
when sampling from quality soundcards.

> When selecting 96kHz nevertheless, a message will appear on exiting the
> "option/transceiver" window but no correction will be made, i.e. forcing
> to 48kHz.

It should change frequency as soon as you click OK or click Apply. Or
alternatively it should tell you the frequency cannot be set.

--
Duncan Munro
http://www.m0kgk.co.uk/

414. Re: [kgksdr] New V 1.1 Calibration??

Yahoo group: kgksdr
Date: 2006-11-15 14:31:37 UTC
From: Duncan Munro
Topic: 406 Message: 414

Duncan Munro wrote:
> n3hkn wrote:

> Hi Dick, I think I know the answer to this one too. ASIO4all is
> replicating the sample slip problem in the soundard, and the new KGKSDR
> does not have the delay left/right option to deal with it.
>
> I'll add that into the ASIO version as the SB Live! 24 is a popular card.

It's worse than that :-(

It looks like ASIO4all is fixing the sample slip, and KGKSDR is also
"fixing" it so you end up just as bad as where you started. I guess you
have this option turned on, and now the control is missing you can't
turn it off...

I'm putting the sample slip option back in so at least you have a
control where you can turn it off. The hanging problem has been traced
and fixed too. There's a new download build 37:

http://www.m0kgk.co.uk/sdr/download.php

Changes from the log are:

1.1.0.37 15/11/2006

FIXED: Problem where machine could hang after a few minutes where
the calibration charts window was open or the machine was busy
carrying out other tasks.

FIXED: Sample slip option had been removed from the options form,
this has now been reinstated.

--
Duncan Munro
http://www.m0kgk.co.uk/

415. Re: New V 1.1 Calibration??

Yahoo group: kgksdr
Date: 2006-11-16 03:39:13 UTC
From: n3hkn
Topic: 406 Message: 415

Ok, looks good now. Calibration works well in manual mode. Signals will be stronger in the morning so I can evaluate the automatic calibration. CPU with new 1.1 is avg 65%. Old 33 avg 35%. PC 2ghz 1gb memory.

I will order the Softrock RXTX kit when the next kit group becomes available. Hopefully the driver/PA issues will be solved by then.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Duncan Munro wrote:
> > n3hkn wrote:
>
> > Hi Dick, I think I know the answer to this one too. ASIO4all is
> > replicating the sample slip problem in the soundard, and the new
KGKSDR
> > does not have the delay left/right option to deal with it.
> >
> > I'll add that into the ASIO version as the SB Live! 24 is a
popular card.
>
> It's worse than that :-(
>
> It looks like ASIO4all is fixing the sample slip, and KGKSDR is
also
> "fixing" it so you end up just as bad as where you started. I
guess you
> have this option turned on, and now the control is missing you
can't
> turn it off...
>
> I'm putting the sample slip option back in so at least you have a
> control where you can turn it off. The hanging problem has been
traced
> and fixed too. There's a new download build 37:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
> Changes from the log are:
>
> 1.1.0.37 15/11/2006
>
> FIXED: Problem where machine could hang after a few minutes where

> the calibration charts window was open or the machine was busy
> carrying out other tasks.
>
> FIXED: Sample slip option had been removed from the options form,
> this has now been reinstated.
>
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

416. V1.1 Lockup build 37

Yahoo group: kgksdr
Date: 2006-11-16 13:05:11 UTC
From: n3hkn
Topic: 416 Message: 416

This condition continues to occur. It seems that you have to have the calibration screen up AND the automatic calibration checked. I also have my calibration speed set to very high but I am not sure if this is a factor.

Regards,
Dick N3HKN

417. Re: kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-16 14:38:01 UTC
From: gw4evj
Topic: 404 Message: 417

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
>
> Try deleting the calibration entries in this folder:
>
> D:\Documents and Settings\system name\Application Data\Duncan
> Amplification
>
> Dick N3HKN
>
>
> --- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@> wrote:
> >
> > Hello Duncan,
> > Trying out kgksdr 1.1 and getting the following message.
> > Access Violation at Address 00403917
> > in module kgksdr11.exe
> > Write of address 01903830.
> > Not sure what this means.
> > Previous version still working fine with Softrock-40
> > and SB Audigy 2ZS.
> > 73 George

Drive D: is CD Drive
George

418. Re: kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-16 15:26:42 UTC
From: n3hkn
Topic: 404 Message: 418

The "D:" in my example is the drive/disk where Windows is located. System name refers to the name you assigned to your computer when you first loaded Windows. Once you open the Documents and Settings folder you will see that name assigned to a folder. Look further in that folder.

Dick n3HKN

--- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@> wrote:
> >
> >
> > Try deleting the calibration entries in this folder:
> >
> > D:\Documents and Settings\system name\Application Data\Duncan
> > Amplification
> >
> > Dick N3HKN
> >
> >
> > --- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@> wrote:
> > >
> > > Hello Duncan,
> > > Trying out kgksdr 1.1 and getting the following message.
> > > Access Violation at Address 00403917
> > > in module kgksdr11.exe
> > > Write of address 01903830.
> > > Not sure what this means.
> > > Previous version still working fine with Softrock-40
> > > and SB Audigy 2ZS.
> > > 73 George
>
> Drive D: is CD Drive
> George
>

419. Re: kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-16 18:30:05 UTC
From: gw4evj
Topic: 404 Message: 419

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> The "D:" in my example is the drive/disk where Windows is located.
> System name refers to the name you assigned to your computer when you
> first loaded Windows. Once you open the Documents and Settings folder
> you will see that name assigned to a folder. Look further in that
> folder.
>
> Dick n3HKN
>
>
>
>
> --- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@> wrote:
> > >
> > >
> > > Try deleting the calibration entries in this folder:
> > >
> > > D:\Documents and Settings\system name\Application Data\Duncan
> > > Amplification
> > >
> > > Dick N3HKN
> > >
> > >
> > > --- In kgksdr@yahoogroups.com, "gw4evj" <georgewatson@> wrote:
> > > >
> > > > Hello Duncan,
> > > > Trying out kgksdr 1.1 and getting the following message.
> > > > Access Violation at Address 00403917
> > > > in module kgksdr11.exe
> > > > Write of address 01903830.
> > > > Not sure what this means.
> > > > Previous version still working fine with Softrock-40
> > > > and SB Audigy 2ZS.
> > > > 73 George
> >
> > Drive D: is CD Drive
> > George
Thanks for your help Dick.
I think I must have an odd installation of XP here.
I cannont find Application Data in Docs & Settings.
As must be obvious I am a novice with computers.
73 George GW4EVJ

420. Re: [kgksdr] V1.1 Lockup build 37

Yahoo group: kgksdr
Date: 2006-11-16 18:39:45 UTC
From: Duncan Munro
Topic: 416 Message: 420

n3hkn wrote:
> This condition continues to occur. It seems that you have to have the
> calibration screen up AND the automatic calibration checked. I also
> have my calibration speed set to very high but I am not sure if this
> is a factor.

Hi Dick, thanks for the info. I will try to duplicate that here and leave it running to see where it goes pear shaped.

There was a message last night from the software "out of system resources", the problems only seem to creep in when the calibration charts are left running so it may be the new chart component that is causing the issue here...

--
Duncan Munro
http://www.m0kgk.co.uk/

421. Re: [kgksdr] Re: V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-16 18:41:13 UTC
From: Duncan Munro
Topic: 407 Message: 421

n3hkn wrote:

> Would it be possible to replace the clicking areas in the calibration
> window with a slider which is easier to adjust than dozens of
> clicks....

Hi Dick, I take it this is for the manual calibration? There's a guess button which does all the work for you, I don't think I've had much cause to press the <<< and >>> buttons so didn't really give it much thought.

--
Duncan Munro
http://www.m0kgk.co.uk/

422. Re: [kgksdr] KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-16 18:46:35 UTC
From: Duncan Munro
Topic: 399 Message: 422

Jean Taeymans wrote:

> The most annoying thing is of course that the sample frequency can not
> be selected independently for each board (a limitation in ASIO4ALL
> ? can the sample depth be chosen ?).

Sorry Jean, I forgot to answer the question about sample speed. The way I understand it works is that the driver (1 driver for your two soundcards) swaps all buffers at the same time so they must be clocked at the same samplerate.

It is possible for the card to operate at 48 and ASIO4all to resample to 44.1, but the KGKSDR can only "see" a single speed even if the cards are working at different speeds.

--
Duncan Munro
http://www.m0kgk.co.uk/

423. Re: [kgksdr] Re: kgksd3 1.1

Yahoo group: kgksdr
Date: 2006-11-16 18:54:57 UTC
From: Duncan Munro
Topic: 404 Message: 423

gw4evj wrote:

> Thanks for your help Dick.
> I think I must have an odd installation of XP here.
> I cannont find Application Data in Docs & Settings.
> As must be obvious I am a novice with computers.

Hi George,

If you right-click on the start button and 'explore' you can drill down
to the KGKSDR folder. I've put a screen dump in the files area of this
group which you can get to with the following link:

http://tinyurl.com/y8khus

Hope this helps.

--
Duncan Munro
http://www.m0kgk.co.uk/

424. Re: [kgksdr] KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-16 19:30:16 UTC
From: Jean Taeymans
Topic: 399 Message: 424

Duncan,

Thanks for the answer.
As I understand it now, it means that if in future one wants to use KGKSDR 1.1 with ASIO4ALL (for the lower latency) and 96ks/s (for the wider frequence coverage), one will need to have both boards capable of 96ks/s, e.g. two SB Audigy SE boards or SB Live! 24 boards. This is not so bad as these boards retails currently around 30euro, though it is a bit of overkill for the loudspeaker-microphone.
Thinking about it, you must have the same issue with your setup consisting of:the SB Live! 24 and the onboard AC97 chipset.

All the best,
Jean.

----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Thursday, November 16, 2006 7:46 PM
Subject: Re: [kgksdr] KGKSDR download link

Jean Taeymans wrote:

> The most annoying thing is of course that the sample frequency can not
> be selected independently for each board (a limitation in ASIO4ALL
> ? can the sample depth be chosen ?).

Sorry Jean, I forgot to answer the question about sample speed. The way I understand it works is that the driver (1 driver for your two soundcards) swaps all buffers at the same time so they must be clocked at the same samplerate.

It is possible for the card to operate at 48 and ASIO4all to resample to 44.1, but the KGKSDR can only "see" a single speed even if the cards are working at different speeds.

--
Duncan Munro
http://www.m0kgk.co.uk/

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.430 / Virus Database: 268.14.6/535 - Release Date: 15-11-2006 15:47

425. Re: V1.1 Takes 100% CPU After 5 minutes

Yahoo group: kgksdr
Date: 2006-11-16 21:30:01 UTC
From: n3hkn
Topic: 407 Message: 425

It is not a big issue. "Guess" looks like it works quite well. The ease of changing the calibration values would arise when you are having problems. The manual sliders would allow you to quickly prove that calibration is, or is not possible. If someone fails to set the proper delay option for an SB 24 Live card the sliders offer a much faster illustration of the fact that there is a problem rather than a suspicion that the "guess" routine has an issue.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
>
> > Would it be possible to replace the clicking areas in the calibration
> > window with a slider which is easier to adjust than dozens of
> > clicks....
>
> Hi Dick, I take it this is for the manual calibration? There's a guess
> button which does all the work for you, I don't think I've had much
> cause to press the <<< and >>> buttons so didn't really give it much
> thought.
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

426. Re: [kgksdr] KGKSDR download link

Yahoo group: kgksdr
Date: 2006-11-16 21:38:18 UTC
From: Duncan Munro
Topic: 399 Message: 426

Jean Taeymans wrote:
> Duncan,
>
> Thanks for the answer.
> As I understand it now, it means that if in future one wants to use
> KGKSDR 1.1 with ASIO4ALL (for the lower latency) and 96ks/s (for
> the wider frequence coverage), one will need to have both boards capable
> of 96ks/s, e.g. two SB Audigy SE boards or SB Live! 24 boards. This is
> not so bad as these boards retails currently around 30euro, though it is
> a bit of overkill for the loudspeaker-microphone.
> Thinking about it, you must have the same issue with your setup
> consisting of:the SB Live! 24 and the onboard AC97 chipset.

Hi Jean, in the future I will be putting the facility in there to mix
the ASIO with the ordinary soundcards.

It's more convenient for me to have the onboard AC97 to monitor the RX
output. So there will be a choice - those who want the very best in low
latency can use ASIO, those who don't care too much can use use the
normal Windows drivers.

There will be some caveats such as all the ASIO devices will need to be
at the same speed, and you won't be able to use a card as ASIO and
Windows driver at the same time.

--
Duncan Munro
http://www.m0kgk.co.uk/

427. Build 38 released

Yahoo group: kgksdr
Date: 2006-11-18 11:44:08 UTC
From: Duncan Munro
Topic: 427 Message: 427

I have just released build 38 to the website
http://www.m0kgk.co.uk/sdr/download.php

There were significant problems around the calibration and calibration display functions which would cause the application to run out of resources and eventually cause KGKSDR to hang.

This was traced to the chart component used in the software, so I decided to roll my own. It's simple but it works and doesn't leak resources so if you're wondering why the calibration charts look different...

The list of changes is:

1.1.0.38 18/11/2006

FIXED: Problem whereby the calibration data might not get saved at the end of a session. In addition to this fix, the calibration data is also saved every 10 minutes.

FIXED: Calibration polynomials could form strange shapes in early stages of the calibration process, now fixed.

FIXED: Chart component replaced as resource leaks were found with the previous one.

CHANGED: Signal now has to be 20dB above image to trigger the collection of a calibration point. Previously it could be the same or higher.

73,

Duncan
M0KGK

428. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-18 13:00:23 UTC
From: n3hkn
Topic: 427 Message: 428

Looks good.... The CPU utilization is also down 10%.
Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> I have just released build 38 to the website
> http://www.m0kgk.co.uk/sdr/download.php
>
> There were significant problems around the calibration and
calibration
> display functions which would cause the application to run out of
> resources and eventually cause KGKSDR to hang.
>
> This was traced to the chart component used in the software, so I
> decided to roll my own. It's simple but it works and doesn't leak
> resources so if you're wondering why the calibration charts look
> different...
>
> The list of changes is:
>
> 1.1.0.38 18/11/2006
>
> FIXED: Problem whereby the calibration data might not get saved at
the
> end of a session. In addition to this fix, the calibration data is
> also saved every 10 minutes.
>
> FIXED: Calibration polynomials could form strange shapes in early
> stages of the calibration process, now fixed.
>
> FIXED: Chart component replaced as resource leaks were found with
the
> previous one.
>
> CHANGED: Signal now has to be 20dB above image to trigger the
> collection of a calibration point. Previously it could be the
> same or higher.
>
> 73,
>
> Duncan
> M0KGK
>

429. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-19 22:20:03 UTC
From: philip_g7jur
Topic: 427 Message: 429

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:

Hello Duncan.
Just giving KGKSDR 1.1 build 38 a try. I found that if I
select 96
kbs the audio output has a wobble plus distortion on it, but its fine
at 48 kbs. I am using a Delta 44 soundcard.
I am running windows XP PC has a AMD sempron 3000+ CPU and 512MB of RAM.
Could you improve the contrast of the calibration charts.

Many thanks Philip g7jur.

>
> I have just released build 38 to the website
> http://www.m0kgk.co.uk/sdr/download.php
>
> There were significant problems around the calibration and calibration
> display functions which would cause the application to run out of
> resources and eventually cause KGKSDR to hang.
>
> This was traced to the chart component used in the software, so I
> decided to roll my own. It's simple but it works and doesn't leak
> resources so if you're wondering why the calibration charts look
> different...
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> The list of changes is:
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> 1.1.0.38 18/11/2006
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> FIXED: Problem whereby the calibration data might not get saved at the
> end of a session. In addition to this fix, the calibration data is
> also saved every 10 minutes.
>
> FIXED: Calibration polynomials could form strange shapes in early
> stages of the calibration process, now fixed.
>
> FIXED: Chart component replaced as resource leaks were found with the
> previous one.
>
> CHANGED: Signal now has to be 20dB above image to trigger the
> collection of a calibration point. Previously it could be the
> same or higher.
>
> 73,
>
> Duncan

> M0KGK
>

430. Re: [kgksdr] Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 01:01:14 UTC
From: Milt Cram
Topic: 427 Message: 430

Duncan Munro wrote:
> I have just released build 38 to the website
> http://www.m0kgk.co.uk/sdr/download.php
>
> There were significant problems around the calibration and calibration
> display functions which would cause the application to run out of
> resources and eventually cause KGKSDR to hang.
>
> This was traced to the chart component used in the software, so I
> decided to roll my own. It's simple but it works and doesn't leak
> resources so if you're wondering why the calibration charts look
> different...
>
> The list of changes is:
>
> 1.1.0.38 18/11/2006
>
> FIXED: Problem whereby the calibration data might not get saved at the
> end of a session. In addition to this fix, the calibration data is
> also saved every 10 minutes.
>
> FIXED: Calibration polynomials could form strange shapes in early
> stages of the calibration process, now fixed.
>
> FIXED: Chart component replaced as resource leaks were found with the
> previous one.
>
> CHANGED: Signal now has to be 20dB above image to trigger the
> collection of a calibration point. Previously it could be the
> same or higher.
>
> 73,
>
> Duncan
> M0KGK
>
>
Hi Duncan,

Thanks for the latest version of KGK-XCVR.

Upon loading the software I find a couple of peculiarities. First, the upper part of the display is mostly blank, except for the Menu Bar across the top, the S-Meter, and the spectral display. Clicking on any of the MenuBar options causes the buttons, sliders, etc. to appear.

Second, the "Splash Screen" announcing M0KGK SDR Transceiver remains open for a long time. Clicking on one of the Menu choices, to view the drop down menu, and then clicking on one of the menu choices, causes the Splash Screen to close. If I don't do this, the Splash Screen remains on the middle of my display.

Once these two issues have been addressed, the program appears to function normally.

My system is an older Dell Optiplex (1GHz), running Win2K. I'm using the on-board sound (AC97) with the ASIO4ALL driver. Any suggestions for a fix to the display problems?

Regards,
Milt W8NUE

431. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 07:37:12 UTC
From: Duncan Munro
Topic: 427 Message: 431

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> Hello Duncan.
> Just giving KGKSDR 1.1 build 38 a try. I found that if I
> select 96
> kbs the audio output has a wobble plus distortion on it, but its fine
> at 48 kbs. I am using a Delta 44 soundcard.
> I am running windows XP PC has a AMD sempron 3000+ CPU and 512MB of RAM.
> Could you improve the contrast of the calibration charts.

Hi Philip, if you are getting distorted audio or it's breaking up,
please try the following:

* Close KGKSDR
* Open D44 control panel
* Increase the buffer size
* Close D44 control panel
* Restart KGKSDR

Re: calibration chart contrast, do you mean the +++ signs?

432. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 11:44:23 UTC
From: Duncan Munro
Topic: 427 Message: 432

Duncan Munro wrote:

> Re: calibration chart contrast, do you mean the +++ signs?

Philip, I've just had another look and some of the colour schemes (i.e. Old Scope) are almost invisible. I'll have a dig round and fix this problem.

--
Duncan Munro
http://www.m0kgk.co.uk/

433. Re: [kgksdr] Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 08:15:19 UTC
From: Duncan Munro
Topic: 427 Message: 433

Milt Cram wrote:
> My system is an older Dell Optiplex (1GHz), running Win2K. I'm using
> the on-board sound (AC97) with the ASIO4ALL driver. Any suggestions for
> a fix to the display problems?

Hi Milt,

The new software has stop/start removed and now runs 100% of the time, including when you start up. If your machine is being pushed on the performance front it can take a little while for the screen drawing to come up.

For example if 90% of CPU is needed to run the receiver, then only 10% is available to draw the screen.

I can put a delay in there to stop the receiver starting up for a second or two which will make things look better.

Other tips to try:

* Use 48kHz on AC97 rather than 44.1
* Turn off collect cal points if you have enough already
* Turn off any DSP features unless you are using them.

--
Duncan Munro
http://www.m0kgk.co.uk/

434. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 12:14:14 UTC
From: philip_g7jur
Topic: 427 Message: 434

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> philip_g7jur wrote:
> > --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@> wrote:
> >
> > Hello Duncan.
> > Just giving KGKSDR 1.1 build 38 a try. I found that
if I
> > select 96
> > khz the audio output has a wobble plus distortion on it, but its
fine
> > at 48 khz. I am using a Delta 44 soundcard.
> > I am running windows XP PC has a AMD sempron 3000+ CPU and 512MB
of RAM.
> > Could you improve the contrast of the calibration charts.
>
> Hi Philip, if you are getting distorted audio or it's breaking up,
> please try the following:
>
> * Close KGKSDR
> * Open D44 control panel
> * Increase the buffer size

I have already set the buffer size to 512.
Winrad work fine at 96khz using ASIO. But I did notice that PowerSDR
is not to good at 96khz. No problem at 96khz using MME.

> * Close D44 control panel
> * Restart KGKSDR
>
> Re: calibration chart contrast, do you mean the +++ signs?
>
Just read yuor message about contrast I was using that colour sceam.

73 Philip g7jur.

435. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 16:28:50 UTC
From: philip_g7jur
Topic: 427 Message: 435

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Hello Duncan.

Just got home and played a bit more.

Set buffer size in for Delta 44 to 1024, Audio now fine at 96 kHz.

Changed colours to LCD, can now see maps.

I have built the Softrock V6 RXTX beta kit, have got it working
but now waiting for the mod kit to carry out the mods.

Well at least I will have something do over Christmas, got the Delta
44 last week on ebay. This has replaced the Sound Blaster Audgiy SE
which does work very well, but the Delta 44 is the one to use.

Many thanks for the good work you are doing with KGKSDR.

73 Philip g7jur.

>
> philip_g7jur wrote:
> > --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@> wrote:
> >
> > Hello Duncan.
> > Just giving KGKSDR 1.1 build 38 a try. I found that if I
> > select 96
> > kbs the audio output has a wobble plus distortion on it, but its fine
> > at 48 kbs. I am using a Delta 44 soundcard.
> > I am running windows XP PC has a AMD sempron 3000+ CPU and 512MB
of RAM.
> > Could you improve the contrast of the calibration charts.
>
> Hi Philip, if you are getting distorted audio or it's breaking up,
> please try the following:
>
> * Close KGKSDR
> * Open D44 control panel
> * Increase the buffer size
> * Close D44 control panel
> * Restart KGKSDR
>
> Re: calibration chart contrast, do you mean the +++ signs?
>

436. Build 39 released

Yahoo group: kgksdr
Date: 2006-11-20 18:02:21 UTC
From: Duncan Munro
Topic: 436 Message: 436

I have just released build 39 to the website
http://www.m0kgk.co.uk/sdr/download.php

This build should address the majority of the remaining issues as a result of moving to the new chart component and ASIO. It also includes native support for the Griffin PowerMate.

I bought one of these for $15+shipping off eBay and I'm very pleased with it. The supplied drivers are pretty basic in that they map the PowerMate tuning knob movements into keystrokes to maintain compatibility with as many applications as possible. For KGKSDR that's left and right arrow to tune.

Only one problem, if you give the control a good spin the tuning is still moving long after you've stopped. Actually, there's a second problem in that there are no Windows 64 bit drivers for it so I put native support into KGKSDR in order to use it on the dev machine here.

All you do now is plug it in and go, no setup needed on KGKSDR or need to use the supplied CD. If you _do_ want to use the CD and put the drivers on so you can use the PowerMate with other applications, then you will need to add a profile for KGKSDR and set each of the control functions to "No action".

Here's a couple of links:

PowerMate: http://www.griffintechnology.com/products/powermate/
Ebay search: http://tinyurl.com/y6zv79

OK that's enough from me, here's the contents of the changes.txt file. It will go quiet for a few days as this is the last 'RX only' version. The next build will have transmitter calibration functions in there.

Thanks for the continuing feedback on the software.

==========

LATEST CHANGES TO M0KGK SDR

1.1.0.39 20/11/2006

FIXED: Problems with colours on calibration chart causing lack of contrast on certain colour schemes.

ADDED: Option -> Transceiver -> General now contains a CW key click filter time constant (default 4mS). Main screen now contains TX power control.

ADDED: Griffin PowerMate support. No driver is needed, just plug the USB device in and go as KGKSDR has native support for this device. Press the knob down and turn for fast tuning, leave up from normal tuning.

73,

Duncan
M0KGK

437. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 14:52:56 UTC
From: N Munro
Topic: 427 Message: 437

philip_g7jur wrote:
>
> I have already set the buffer size to 512.
> Winrad work fine at 96khz using ASIO. But I did notice that PowerSDR
> is not to good at 96khz. No problem at 96khz using MME.
>
Philip
Had very similar problems with my D-44. Originally pushed the buffer
size up to 2048 but have now dropped it back to 1024 (which was
Duncan's suggestion).
It works OK at that buffer size.

Norman
GM4KGK

438. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 22:26:43 UTC
From: philip_g7jur
Topic: 427 Message: 438

--- In kgksdr@yahoogroups.com, N Munro <norman@...> wrote:
Hello Norman.
Thanks for that, at least I know that I have got things set up correctly.
73 Philip g7jur.

>
> philip_g7jur wrote:
> >
> > I have already set the buffer size to 512.
> > Winrad work fine at 96khz using ASIO. But I did notice that PowerSDR
> > is not to good at 96khz. No problem at 96khz using MME.
> >
> Philip
> Had very similar problems with my D-44. Originally pushed the buffer
> size up to 2048 but have now dropped it back to 1024 (which was
> Duncan's suggestion).
> It works OK at that buffer size.
>
> Norman
> GM4KGK
>

439. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 23:46:07 UTC
From: Duncan Munro
Topic: 427 Message: 439

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, N Munro <norman@...> wrote:
> Hello Norman.

Just to add to the words of KGK senior, I checked the shack machine here
and the Delta is set for 1024 sample buffer size.

From memory, the 512 buffer size would work well on 48k but would cause
a breakup on 96k. For info the machine in question is an AMD 2600MHz
Athlon.

--
Duncan Munro
http://www.m0kgk.co.uk/

440. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-20 17:46:07 UTC
From: Duncan Munro
Topic: 427 Message: 440

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Hello Duncan.
>
> Just got home and played a bit more.
>
> Set buffer size in for Delta 44 to 1024, Audio now fine at 96 kHz.
>
> Changed colours to LCD, can now see maps.
>
> I have built the Softrock V6 RXTX beta kit, have got it working
> but now waiting for the mod kit to carry out the mods.
>
> Well at least I will have something do over Christmas, got the Delta
> 44 last week on ebay. This has replaced the Sound Blaster Audgiy SE
> which does work very well, but the Delta 44 is the one to use.
>
> Many thanks for the good work you are doing with KGKSDR.

Hi Philip, the colours should be fixed with the latest build (announcement in a couple of seconds) and you should be able to go back to the colour scheme of your choice.

--
Duncan Munro
http://www.m0kgk.co.uk/

441. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-24 00:13:41 UTC
From: Duncan Munro
Topic: 427 Message: 441

Duncan Munro wrote:

> Hi Philip, the colours should be fixed with the latest build
> (announcement in a couple of seconds) and you should be able to go back
> to the colour scheme of your choice.

My God, I know that the Yahoo groups have some weird delays at times,
but this message has just turned up three and a half days after I posted
it....

Is this a record? ;-)

--
Duncan Munro
http://www.m0kgk.co.uk/

442. Re: [kgksdr] Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-24 00:43:34 UTC
From: KD5NWA
Topic: 427 Message: 442

Duncan Munro wrote:
> Duncan Munro wrote:
>
>> Hi Philip, the colours should be fixed with the latest build
>> (announcement in a couple of seconds) and you should be able to go back
>> to the colour scheme of your choice.
>
> My God, I know that the Yahoo groups have some weird delays at times,
> but this message has just turned up three and a half days after I posted
> it....
>
> Is this a record? ;-)
>
I've have some turn up 4 days later, you get what you pay for.

--

Cecil
KD5NWA
www.qrpradio.com www.hpsdr.com

"Sacred Cows make the best Hamburger!" Don Seglio Batuna

444. Re: Build 38 released

Yahoo group: kgksdr
Date: 2006-11-24 22:52:53 UTC
From: philip_g7jur
Topic: 427 Message: 444

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Hello Duncan.

Date 24th November 2006. Time 22:52 GMT. Lets see how long that takes.

I am pleased with the contrast in the calibration map.
I also brought a Griffin Powermate, so I am have fun using it with
KGKSDR. And setting up to use in over applications.

73 Philip g7jur.

>
> Duncan Munro wrote:
>
> > Hi Philip, the colours should be fixed with the latest build
> > (announcement in a couple of seconds) and you should be able to go
back
> > to the colour scheme of your choice.
>
> My God, I know that the Yahoo groups have some weird delays at times,
> but this message has just turned up three and a half days after I
posted
> it....
>
> Is this a record? ;-)
>
> --
> Duncan Munro
> http://www.m0kgk.co.uk/
>

445. KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-11-27 21:03:14 UTC
From: Duncan Munro
Topic: 445 Message: 445

KGKSDR build 40 has been released to the website download area at:

http://www.m0kgk.co.uk/sdr/download.php

This has a facility for cancelling the opposite image, and a fledgling CW TX capability and I will try to describe the new features in this post as the help file has not been updated yet ;-)

NEW OPTIONS

Under options > transceiver there are a couple of new items on the hardware tab. On the ports panel, you can set the com port for the four pins that connect the PC to the outside world.

* Morse key: Key in normally CTS.
* PTT in: DCD but can be also be CTS (not implemented yet, will be used as PTT for SSB).
* Common high: DTR. This is a voltage source point to power morse key and ptt button (more later).
* PTT to TX: RTS. This is the TX/RX line to control the Softrock.

Wiring up. RTS goes straight to the Softrock as described above. The DTR line is set by the software to a positive voltage (measures +9V on the port here). This can be connected via a 4.7K pullup resistors to the morse key input and/or PTT input leaving them floating at 9V to 12V when the contacts are open. If you are using an external keyer it should be fine with this arrangement.

IMAGE CANCELLATION

From the options menu, select "Set TX manual cal point..." which will bring up the calibration screen.

Hit the TX on box and you will start transmitting a continuous carrier. Note that the status bar on the main screen goes dark red when you are transmitting.

The idea with this screen is that you output a tone and the screen will tell you where the image is likely to appear. Using a different receiver, you monitor the image frequency. Using the S meter and your ears, you play around with the amplitude and phase adjustments until the image disappears in the mush.

Hit the 'save point' button and move onto a different frequency. Repeat the process until you get bored (12-20 points is probably enough).

The frequency slider takes you close to the + and - Nyquist frequencies and various frequencies in between.

The amplitude and phase controls are each in two parts. The left-hand control moves the values up and down, and the right-hand control acts as a zoom function allowing you to access finer resolutions.

Start off on coarse settings and spin the amplitude and phase looking for a dip in the image. Repeat if required. Move the zoom controls to the right by one click to get finer control and play around with phase and amplitude again.

With a bit of practice you should be able to null the image quite quickly. A bit of advice: don't bother chasing your tail by trying to get -120dB image rejection. If you cough, or the line voltage changes the image will jump back again and you will never achieve perfection. You will get very frustrated, don't ask me how I know ;-)

There are a couple of tabs that show the amplitude and phase charts in addition to the controls, and a clear all button if you want to start again.

CW TX

Assuming some cal work has been done and you have wired up the serial port as described earlier on, simply plug in the keyer or hand key and off you go. There is no need to select TX, the software flips between the two automatically.

There are a few rough edges, like the RX monitors the TX and not everyone will like that. Also, the AGC gets pumped by the TX - this can be fixed by temporarily suspending AGC while the transmitter is on. I'll spend a week or two getting CW straight, and then do something with the SSB side.

Have fun & 73,

Duncan
M0KGK

446. Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 04:42:28 UTC
From: qrper723
Topic: 445 Message: 446

Duncan,

Nice job and I can run this program.
I will test for transmitting the CW from now and I have a question
about the connection of COM-port wiring.

As you said;

> * Morse key: Key in normally CTS.
> * PTT in: DCD but can be also be CTS (not implemented yet, will be
> used as PTT for SSB).
> * Common high: DTR. This is a voltage source point to power morse key
> and ptt button (more later).
> * PTT to TX: RTS. This is the TX/RX line to control the Softrock.
>
> Wiring up. RTS goes straight to the Softrock as described above. The
> DTR line is set by the software to a positive voltage (measures +9V on
> the port here). This can be connected via a 4.7K pullup resistors to
> the morse key input and/or PTT input leaving them floating at 9V to
> 12V when the contacts are open. If you are using an external keyer it
> should be fine with this arrangement.

I'm also using PowerSDR with CW transmit and it uses also COM1 port
and works well.So Duncan, are the connections above the same with
PowerSDR ?

In PowerSDR I need not pull-up the input of keyer and PTT.
Would you recommend that?

If I could it's better to use the same connection both the PowerSDR
and also the KGKSDR also.

ja9mat hidehiko.

447. Re: [kgksdr] Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 13:09:00 UTC
From: Duncan Munro
Topic: 445 Message: 447

qrper723 wrote:
> Duncan,
>
> Nice job and I can run this program.
> I will test for transmitting the CW from now and I have a question
> about the connection of COM-port wiring.
>
> As you said;
>
>> * Morse key: Key in normally CTS.
>> * PTT in: DCD but can be also be CTS (not implemented yet, will be
>> used as PTT for SSB).
>> * Common high: DTR. This is a voltage source point to power morse key
>> and ptt button (more later).
>> * PTT to TX: RTS. This is the TX/RX line to control the Softrock.
>>
>> Wiring up. RTS goes straight to the Softrock as described above. The
>> DTR line is set by the software to a positive voltage (measures +9V on
>> the port here). This can be connected via a 4.7K pullup resistors to
>> the morse key input and/or PTT input leaving them floating at 9V to
>> 12V when the contacts are open. If you are using an external keyer it
>> should be fine with this arrangement.
>
> I'm also using PowerSDR with CW transmit and it uses also COM1 port
> and works well.So Duncan, are the connections above the same with
> PowerSDR ?
>
> In PowerSDR I need not pull-up the input of keyer and PTT.
> Would you recommend that?
>
> If I could it's better to use the same connection both the PowerSDR
> and also the KGKSDR also.

Hi Hidehiko, that was the idea to make KGKSDR have the same connections
as PowerSDR as it would make life a lot easier for people who want to
play around with both.

I don't know about getting away without pullups, I will try it and
report back.

73,

Duncan
M0KGK

448. Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 17:27:24 UTC
From: philip_g7jur
Topic: 445 Message: 448

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Also the I/Q seems to swapped over in Power SDR, on the TX side.

Philip g7jur

>
> qrper723 wrote:
> > Duncan,
> >
> > Nice job and I can run this program.
> > I will test for transmitting the CW from now and I have a question
> > about the connection of COM-port wiring.
> >
> > As you said;
> >
> >> * Morse key: Key in normally CTS.
> >> * PTT in: DCD but can be also be CTS (not implemented yet, will be
> >> used as PTT for SSB).
> >> * Common high: DTR. This is a voltage source point to power
morse key
> >> and ptt button (more later).
> >> * PTT to TX: RTS. This is the TX/RX line to control the Softrock.
> >>
> >> Wiring up. RTS goes straight to the Softrock as described above.
The
> >> DTR line is set by the software to a positive voltage (measures
+9V on
> >> the port here). This can be connected via a 4.7K pullup resistors to
> >> the morse key input and/or PTT input leaving them floating at 9V to
> >> 12V when the contacts are open. If you are using an external
keyer it
> >> should be fine with this arrangement.
> >
> > I'm also using PowerSDR with CW transmit and it uses also COM1 port
> > and works well.So Duncan, are the connections above the same with
> > PowerSDR ?
> >
> > In PowerSDR I need not pull-up the input of keyer and PTT.
> > Would you recommend that?
> >
> > If I could it's better to use the same connection both the PowerSDR
> > and also the KGKSDR also.
>
> Hi Hidehiko, that was the idea to make KGKSDR have the same connections
> as PowerSDR as it would make life a lot easier for people who want to

> play around with both.
>
> I don't know about getting away without pullups, I will try it and
> report back.
>
> 73,
>
> Duncan
> M0KGK
>

449. Re: [kgksdr] Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 17:48:48 UTC
From: Duncan Munro
Topic: 445 Message: 449

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Also the I/Q seems to swapped over in Power SDR, on the TX side.

Hi Philip,

I can get the receiver IQ swap to affect the TX side too if required.
It was set up so that the TX IQ mapping matched the receiver IQ.

73,

Duncan
M0KGK

450. Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 18:52:55 UTC
From: philip_g7jur
Topic: 445 Message: 450

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Hi Duncan.
That would be a good idea. As on the RX side there does seem to be
some confusion, as I input is the L/H channel the Q input is the R/H
and that is how KGKSDR is setup at default. But I have to tick swap
I/Q with Winrad.

Thanks Philip g7jur.

>
> philip_g7jur wrote:
> > --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > Also the I/Q seems to swapped over in Power SDR, on the TX side.
>
> Hi Philip,
>
> I can get the receiver IQ swap to affect the TX side too if required.
> It was set up so that the TX IQ mapping matched the receiver IQ.
>
> 73,
>
> Duncan
> M0KGK
>

451. Re: [kgksdr] Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-02 21:28:19 UTC
From: Duncan Munro
Topic: 445 Message: 451

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Hi Duncan.
> That would be a good idea. As on the RX side there does seem to be
> some confusion, as I input is the L/H channel the Q input is the R/H
> and that is how KGKSDR is setup at default. But I have to tick swap
> I/Q with Winrad.

Hi Philip, there's a build 41 on the site now which has the help file
fixed and I took the opportunity to make the IQ swap for RX affect TX
and tune too.

http://www.m0kgk.co.uk/sdr/download.php

73,

Duncan
M0KGK

452. Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-03 02:12:27 UTC
From: qrper723
Topic: 445 Message: 452

Hi dear Duncan,

I'm happy to hear you.
I'm looking forward for your report again.

73 and have a nice weekend,ja9mat hidehiko.

> I don't know about getting away without pullups, I will try it and
> report back.

453. Re: [kgksdr] Re: KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-03 10:50:04 UTC
From: Duncan Munro
Topic: 445 Message: 453

qrper723 wrote:
> Hi dear Duncan,
>
> I'm happy to hear you.
> I'm looking forward for your report again.

Hi Hidehiko,

I've just been down to the shack and snipped the pullup wire for the key input. KGKSDR went into TX straight away :-(

I thought it might be because I am using a USB<->serial converter, but the same thing happened with a real COM port.

Looking around the web there are circuits which allow the COM port to be connected to a paddle or key _without_ using pullup resistors. However, they do this by floating the chassis of the key, paddle, or external keyer at around 9 or 12V above ground.

This setup should be fairly trouble free, and going back and re-reading the note from Bill Tracey on this group, I think this is what he was proposing.

I'll do a rewrite on the software and re-do the wiring diagram later today.

73,

Duncan
M0KGK

454. KGKSDR build 40 released (CW TX)

Yahoo group: kgksdr
Date: 2006-12-03 11:08:03 UTC
From: Verduyn Jan-qswi296
Topic: 445 Message: 454

Duncan,

Many thanks for following up and providing TX capability on your program.
I am looking forward to try this out on RXTX as soon as poss, however extremely busy at QRL, also with Christmas coming up limited time available.

best 73s and thanks again

Jan

455. KGKSDR Build 42 released: wiring changes

Yahoo group: kgksdr
Date: 2006-12-03 13:22:26 UTC
From: Duncan Munro
Topic: 455 Message: 455

Build 42 has been released to the website at the usual place:

http://www.m0kgk.co.uk/sdr/download.php

This takes stock of changes to the wiring and associated changes to the documentation. Pullup resistors are no longer required and the new wiring diagram can be viewed in the software by using the menu item Help|Connections.

This should (I hope!) now be in line with what Bill has set up for the PowerSDR software.

73,

Duncan
M0KGK

456. Re: KGKSDR Build 42 released: wiring changes

Yahoo group: kgksdr
Date: 2006-12-03 13:56:38 UTC
From: qrper723
Topic: 455 Message: 456

Thanks Duncan for your quick response!
I will try to send CW code from a new KGKSDR soon.

ja9mat hidehiko.

> This takes stock of changes to the wiring and associated changes to
> the documentation. Pullup resistors are no longer required and the
> new wiring diagram can be viewed in the software by using the menu
> item Help|Connections.

457. M0KGK website

Yahoo group: kgksdr
Date: 2006-12-08 16:11:40 UTC
From: Duncan Munro
Topic: 457 Message: 457

All, the M0KGK website (www.m0kgk.co.uk) from where all the downloads come from is moving from a rusty box in my garage/shack to a data centre in the USA.

This will cause intermittent and sometimes long term loss of service from the site for the next 24-48hrs, so I have uploaded the latest build 42 of the TX software to the files area of this group. It's under the KGKSDR TX folder.

Normal service will be resumed as soon as possible :-)

73,

Duncan
M0KGK

458. Re: M0KGK website

Yahoo group: kgksdr
Date: 2006-12-08 17:02:58 UTC
From: jabauzit
Topic: 457 Message: 458

GE Duncan,

Good luck with the move. I just subscribed to the group and have a quick question: can you confirm that RTS goes to the PPT IN on the SoftRock RXTX.

Thanks, Jean-Claude PJ2BVU

459. Re: [kgksdr] Re: M0KGK website

Yahoo group: kgksdr
Date: 2006-12-08 17:24:56 UTC
From: Duncan Munro
Topic: 457 Message: 459

jabauzit wrote:
> GE Duncan,
>
> Good luck with the move. I just subscribed to the group and have a
> quick question: can you confirm that RTS goes to the PPT IN on the
> SoftRock RXTX.

Hi Jean-Claude,

The RTS does indeed go to the PTT in of the RXTX. Just a tip you might want to use the PTTOUT of the RXTX to power a red LED so you know when the unit is in TX mode.

73,

Duncan
M0KGK

460. Re: M0KGK website

Yahoo group: kgksdr
Date: 2006-12-09 02:28:22 UTC
From: qrper723
Topic: 457 Message: 460

Hi Duncan,

Good idea!
This is the way to use PTT-OUT as a TX indicator.
I will also use this as rellay switching of LINE-OUT between the
TX and RX.

ja9mat hidehiko.

> The RTS does indeed go to the PTT in of the RXTX. Just a tip you might
> want to use the PTTOUT of the RXTX to power a red LED so you know when
> the unit is in TX mode.

461. PTT Out and TX LED

Yahoo group: kgksdr
Date: 2006-12-09 02:49:23 UTC
From: jabauzit
Topic: 461 Message: 461

Hi Duncan,

As PTT Out is /PTT Out I tried with a LED between /PTT Out and GND. The LED is on during RX and off during TX. To have it on during TX I would have to connect it between /PTT Out and +5V which is not readyly available. I could add a transistor to invert /PTT Out or simply use "Switched 12V". At the same time I want to use a relay to switch the line out of the sound board in order to use only 1 sound board and I think the best is to use "Switched 12V" for that and it will be easy for the LED. Up to know I have been using my Santa Cruz card and had the motherboard sound disabled. In order to test the TXRX I enabled the motherboard sound and it is no problem with KgkSdr which fully supports ASIO. But I ran into trouble with Power SDR which supports partially ASIO: impossible to select the devices from within Power SDR and no access to the ASIO control panel from Power SDR. Sure enough, it grabbed the 2 first ports which are the on board sound and I had to disable it with the offline control panel (I use ASIO4ALL). Until now I made my tests without the driver and PA. Everything seems OK. It seems that I will have to adjust ASIO4ALL as the sound tends to crack but first I will go thru the archive to see what I can find.

Thanks, Jean-Claude PJ2BVU

462. PowerSDR-KD5TFD-srxmit-20061012.zip

Yahoo group: kgksdr
Date: 2006-12-13 14:02:34 UTC
From: olivier_maillard2000
Topic: 462 Message: 462

Is the source code of this version aviable ?

Best 73's
Olivier HB9TOB

463. Re: [kgksdr] PowerSDR-KD5TFD-srxmit-20061012.zip

Yahoo group: kgksdr
Date: 2006-12-13 14:18:17 UTC
From: Bill Tracey
Topic: 462 Message: 463

Yes - the source code for this is revision 332 in the HPSDR.org SVN server @: svn://206.216.146.154/svn/repos_sdr_hpsdr in: trunk/KD5TFD/PowerSDR/3in4out-48khz

Regards,

Bill (kd5tfd)

At 08:02 AM 12/13/2006, olivier_maillard2000 wrote:
>Is the source code of this version aviable ?
>
>Best 73's
>Olivier HB9TOB

464. Re: PowerSDR-KD5TFD-srxmit-20061012.zip

Yahoo group: kgksdr
Date: 2006-12-13 20:28:21 UTC
From: olivier_maillard2000
Topic: 462 Message: 464

--- In kgksdr@yahoogroups.com, Bill Tracey <bill@...> wrote:
>
> Yes - the source code for this is revision 332 in the HPSDR.org SVN
server
> @: svn://206.216.146.154/svn/repos_sdr_hpsdr in:
> trunk/KD5TFD/PowerSDR/3in4out-48khz
>
> Regards,
>
> Bill (kd5tfd)
>
> At 08:02 AM 12/13/2006, olivier_maillard2000 wrote:
> >Is the source code of this version aviable ?
> >
> >Best 73's
> >Olivier HB9TOB
>

Hello,
The SVN server ask me for a autentication.
Is there a publici aviable read-only user/pwd ?
73's

465. Sound card testing

Yahoo group: kgksdr
Date: 2006-12-13 21:12:52 UTC
From: olivier_maillard2000
Topic: 465 Message: 465

Hello,
I just purchased a Behringer FCA202 Audio card.
Is there a simple way to test the performance of a sound card.
Is there any tools or software allowing to mesure the S/N at diffrents frequency ?

73's de Olivier HB9TOB

466. Re: PowerSDR-KD5TFD-srxmit-20061012.zip

Yahoo group: kgksdr
Date: 2006-12-13 21:34:27 UTC
From: jabauzit
Topic: 462 Message: 466

--- In kgksdr@yahoogroups.com, "olivier_maillard2000" <maillard@...>
wrote:
>
> Hello,
> The SVN server ask me for a autentication.

It shouldn't. If you subscribe to the SoftRock group search for it. I
made a post regarding this. If not I will look for it and post it here.

Jean-Claude PJ2BVU

467. Re: PowerSDR-KD5TFD-srxmit-20061012.zip

Yahoo group: kgksdr
Date: 2006-12-13 22:06:27 UTC
From: jabauzit
Topic: 462 Message: 467

--- In kgksdr@yahoogroups.com, "olivier_maillard2000" <maillard@...>
wrote:
>
> Hello,
> The SVN server ask me for a autentication.

Here is the post I made. It worked for others having the
authentication problem.

I don't know anything about TortoiseSVN but I downloaded the latest
version and installed it. After that I clicked on the link given by
Bill - I use Firefox as a browser - Firefox told me that an external
application had to be launched and I confirmed. From TortoiseSVN I
could browse to the directory indicated by Bill, I right clicked on it
and first tried to do a copy but it looks like it is not for
downloading, so instead I used Export, created a directory on my hard
disk and clicked OK. Right now it is downloading and at no point was I
asked for a user name or password.

Jean-Claude PJ2BVU

468. How to setup KGKSDR for TX?

Yahoo group: kgksdr
Date: 2006-12-14 05:39:57 UTC
From: jabauzit
Topic: 468 Message: 468

After trying the TX part manually by setting KGKSDR into TX
Calibration and switching PTT IN to +12V I made the connexions as per
the help file.
Now when I go into the setup:
Morse Key: on COM2 and I chose CTS
PTT In: not sure what to use, I suppose CTS is the right choice
Common High: DTR
PTT to TX: RTS

My guess is: Morse key acts as PTT IN in CW mode, when SSB is
supported it will be possible to use a different signal for PTT IN
than in CW mode.

As I did not test it yet before receiving an answer I also have a few
questions regarding CW mode.

Just pressing the CW key will switch to transmit mode if I am correct.
After the first press does KGK SDR functions in full break in or is
there some kind of delay to keep the the rig in TX mode? If not would
it be possible to add this feature with adjustable delays?
I am thinking of adding a PA using relays and I am not fond of full
break in.
For the side tone: do I have to use the one from the keyer or does
KGKSDR produces a side tone on the speaker output?

Jean-Claude, PJ2BVU

469. Edirol FA-66 and Rocky

Yahoo group: kgksdr
Date: 2006-12-14 18:10:30 UTC
From: George LaBelle
Topic: 469 Message: 469

Just an FYI that this combo doesn't work. Duncan in a private mail says many WDM drivers (which he uses for access) are buggy. Currently there is only one driver (1.0.0) available, and it apparently doesn't work.

George
Aloha, Oregon

470. Re: How to setup KGKSDR for TX?

Yahoo group: kgksdr
Date: 2006-12-14 18:48:12 UTC
From: Duncan Munro
Topic: 468 Message: 470

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> After trying the TX part manually by setting KGKSDR into TX
> Calibration and switching PTT IN to +12V I made the connexions as per
> the help file.
> Now when I go into the setup:
> Morse Key: on COM2 and I chose CTS
> PTT In: not sure what to use, I suppose CTS is the right choice
> Common High: DTR
> PTT to TX: RTS

Hi Jean-Claude, that's all correct and the way I have things set up here.

> My guess is: Morse key acts as PTT IN in CW mode, when SSB is
> supported it will be possible to use a different signal for PTT IN
> than in CW mode.

Also correct, although SSB is not active yet so the PTT in doesn't work.

> As I did not test it yet before receiving an answer I also have a few
> questions regarding CW mode.
>
> Just pressing the CW key will switch to transmit mode if I am correct.
> After the first press does KGK SDR functions in full break in or is
> there some kind of delay to keep the the rig in TX mode? If not would
> it be possible to add this feature with adjustable delays?

The way it works is that there is a short delay after the dit or dah
after which the unit goes back into RX mode, so it's pretty much full
break in.

> I am thinking of adding a PA using relays and I am not fond of full
> break in.

Neither am I :-)

I will put some delays in there so you can adjust how long before RX
is active again.

> For the side tone: do I have to use the one from the keyer or does
> KGKSDR produces a side tone on the speaker output?

Please use the one from your keyer for now, I will be putting a
monitor facility on so you can hear what is going out and also the
delay. Won't get a chance to do this for a day or two but should get
it sort out either Friday night or Saturday.

I will also hack something up for SSB at the same time.

73,

Duncan
M0KGK

471. Re: How to setup KGKSDR for TX?

Yahoo group: kgksdr
Date: 2006-12-14 22:08:19 UTC
From: jabauzit
Topic: 468 Message: 471

Thanks Ducan,

Now my SoftRock TXRX is setup and tested on a dummy load. Not having a real antenna does not allow me to test it on the air right now but I plan to visit the PJ2T contest station where I will have a very good antenna to make the first test (QSOs?).
Adding a delay for CW in order not to operate full break in will be a real plus: I use 2 sound cards and the mute circuit produces loud clicks. I wonder how it would sound using only one sound card with a relay in the line out.

Nothing is urgent as far as KGKSDR improvements are concerned, right now it seems fully usable on CW.
I will also make some tests with the SoftRock TXRX version of PowerSDR.

Thanks for all the good work.
Jean-Claude PJ2BVU

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@> wrote:
> >
> > After trying the TX part manually by setting KGKSDR into TX
> > Calibration and switching PTT IN to +12V I made the connexions as per
> > the help file.
> > Now when I go into the setup:
> > Morse Key: on COM2 and I chose CTS
> > PTT In: not sure what to use, I suppose CTS is the right choice
> > Common High: DTR
> > PTT to TX: RTS
>
> Hi Jean-Claude, that's all correct and the way I have things set up
here.
>
> > My guess is: Morse key acts as PTT IN in CW mode, when SSB is
> > supported it will be possible to use a different signal for PTT IN
> > than in CW mode.
>
> Also correct, although SSB is not active yet so the PTT in doesn't work.
>
> > As I did not test it yet before receiving an answer I also have a few
> > questions regarding CW mode.
> >
> > Just pressing the CW key will switch to transmit mode if I am correct.
> > After the first press does KGK SDR functions in full break in or is
> > there some kind of delay to keep the the rig in TX mode? If not would

> > it be possible to add this feature with adjustable delays?
>
> The way it works is that there is a short delay after the dit or dah
> after which the unit goes back into RX mode, so it's pretty much full
> break in.
>
> > I am thinking of adding a PA using relays and I am not fond of full
> > break in.
>
> Neither am I :-)
>
> I will put some delays in there so you can adjust how long before RX
> is active again.
>
> > For the side tone: do I have to use the one from the keyer or does
> > KGKSDR produces a side tone on the speaker output?
>
> Please use the one from your keyer for now, I will be putting a
> monitor facility on so you can hear what is going out and also the
> delay. Won't get a chance to do this for a day or two but should get
> it sort out either Friday night or Saturday.
>
> I will also hack something up for SSB at the same time.
>
> 73,
>
> Duncan
> M0KGK
>

472. Works good but Latency...

Yahoo group: kgksdr
Date: 2006-12-14 23:50:24 UTC
From: qrper723
Topic: 472 Message: 472

Duncan,

Hi.

I've finished my test to transmit the CW code from Softrock V6 Exciter
with
the latest KGKSDR version yesterday night.

The wiring procedure in your help file is ok thanks!
But I feel latency <DELAY> when I keyed down from the external keyer.
It is not a negligible quantity.

I think this latency caused by my Soundblaster Audigy NX2 USB...umm...

This latency can be solved by sending CW code with an internal keyer like
the PowerSDR did.

So your keyer-test program of "keyer6.zip" can be used with KGKSDR?
If it could how I set up them?

BTW...

You said there will be included the sidetone facility in the next version
and I'm so glad to operate CW with KGKSDR.

Thanks and 73,

Hidehiko ja9mat.

473. Re: Works good but Latency...

Yahoo group: kgksdr
Date: 2006-12-15 17:18:27 UTC
From: jabauzit
Topic: 472 Message: 473

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
...
> So your keyer-test program of "keyer6.zip" can be used with KGKSDR?
> If it could how I set up them?
>
Keyer delivers an audio tone, not IQ signals. The only way to use it would be in SSB mode which KGKSDR does not support yet. I am not sure that it would improve the latency.

Jean-Claude PJ2BVU

474. Sidetone, CW delay and sequencing

Yahoo group: kgksdr
Date: 2006-12-15 22:30:08 UTC
From: jabauzit
Topic: 474 Message: 474

Hi Duncan,

The other day I asked if you could implement a sidetone in KGKSDR. Now I wonder if it is a good idea: Hidehiko pointed to the CW latency, in this case generating the sidetone via software could lead to sending incorrect CW. It would also require the use of 2 sound boards. If one uses only one sound board with a relay switching line-out between the speaker and the TX input there would be no possibility to output a sidetone, except by using the built-in speaker of the PC.
Using the sidetone of the keyer would also lessen the effect of the latency: as long as I can hear the sidetone in real time and as long as KGKSDR transmit the right dits and dahs I don't think that the latency is much of an issue - except for someone using full break in.
I also plan to add a small linear and wonder if it would be possible to add a sequencing delay: in SSB I press the PTT, KGKSDR activates PTT IN but sends the audio only after some delay. I release PTT, KGKSDR stops sending audio and switches off PTT IN after some delay.
The same could be done in CW - non break in mode - as long as I use the keyer sidetone and as long as KGKSDR can keep track of the dits and dahs. This would allow switching the linear relays when no RF is present.

Jean-Claude PJ2BVU

475. Re: Works good but Latency...

Yahoo group: kgksdr
Date: 2006-12-15 23:06:54 UTC
From: qrper723
Topic: 472 Message: 475

Jean,

Hi,thanks for suggestion.

Well I tested "keyer6.zip" and found it is not avairable
for transmit.

OK I will find the other way to decrease the latency.
Maybe my laptop PC is overload...hi

ja9mat hidehiko.

> > So your keyer-test program of "keyer6.zip" can be used with KGKSDR?
> > If it could how I set up them?
> >
> Keyer delivers an audio tone, not IQ signals. The only way to use it
> would be in SSB mode which KGKSDR does not support yet. I am not sure
> that it would improve the latency.

476. Re: [kgksdr] Sidetone, CW delay and sequencing

Yahoo group: kgksdr
Date: 2006-12-16 00:27:08 UTC
From: Duncan Munro
Topic: 474 Message: 476

jabauzit wrote:
> Hi Duncan,
>
> The other day I asked if you could implement a sidetone in KGKSDR. Now
> I wonder if it is a good idea: Hidehiko pointed to the CW latency, in
> this case generating the sidetone via software could lead to sending
> incorrect CW. It would also require the use of 2 sound boards. If one
> uses only one sound board with a relay switching line-out between the
> speaker and the TX input there would be no possibility to output a
> sidetone, except by using the built-in speaker of the PC.
> Using the sidetone of the keyer would also lessen the effect of the
> latency: as long as I can hear the sidetone in real time and as long
> as KGKSDR transmit the right dits and dahs I don't think that the
> latency is much of an issue - except for someone using full break in.
> I also plan to add a small linear and wonder if it would be possible
> to add a sequencing delay: in SSB I press the PTT, KGKSDR activates
> PTT IN but sends the audio only after some delay. I release PTT,
> KGKSDR stops sending audio and switches off PTT IN after some delay.
> The same could be done in CW - non break in mode - as long as I use
> the keyer sidetone and as long as KGKSDR can keep track of the dits
> and dahs. This would allow switching the linear relays when no RF is
> present.

Hi Jean-Claude, quite a lot of info there and I will try and go through them one at a time. Hope it will answer the questions from Hide on latency as well.

Latency: On TX, this is up to two buffers in length. If the buffer size is set to 1024 for 96kHz (and this appears to be the sensible size for most ops), this will be 2048 bytes @ 96kHz or approx 20mS. 48kHz allows for much smaller buffer sizes, and the lightweight core (when it comes out) will allow smaller buffers still. My longer term target is 2-3mS.

For slow ops like me 20mS isn't a problem, but QRQ ops would have a real issue!

Single soundcard: Yes, it would cause a problem if you want to monitor the CW output but flip the soundcard into IQ out mode at the same time. I don't know of any easy solution for this, other than to get some more hardware. The Soundblaster Live! 24 card is really cheap and works well, I can highly recommend this one as an additional card.

I will put the TX delay on tomorrow (Saturday) so you should be able to play with this and see how it works out. Will also put on the (optional) monitor of the CW output through the speaker.

On Sunday I will be putting SSB on there which will allow this mode to be used along with data modes.

477. Re: Sidetone, CW delay and sequencing

Yahoo group: kgksdr
Date: 2006-12-16 01:23:16 UTC
From: jabauzit
Topic: 474 Message: 477

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>

> Hi Jean-Claude, quite a lot of info there ....

Yes indeed Duncan. As you just implemented the CW part and will develop more I though it was a good idea to mention these ideas now. I am myself a programmer - Delphi also - and know that it is better to start at the design stage that to try to add functions later. It does not mean that it is possible or that you will implement it but at least you can think about it before starting to write code.

Jean-Claude, PJ2BVU

478. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 03:26:52 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 478

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /JA9MAT/KGKSDRv1.1Setting.JPG
Uploaded by : qrper723 <qrper72@...>
Description : My favorite setting <Low Latency>

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/JA9MAT/KGKSDRv1.1Setting.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

qrper723 <qrper72@...>

479. Re: Sidetone, CW delay and sequencing

Yahoo group: kgksdr
Date: 2006-12-16 03:38:25 UTC
From: qrper723
Topic: 474 Message: 479

Duncan,

Hi,

I've found the setting for solving latency of CW TX.
Also I've just uploaded my setting into a file folder of ja9mat
for information.

I made a few QSO with this setting nicely.

But I feel the clickable noise while transmitting.
The TX delay may be effective.I look forward for your next version.

Thanks and have a nice weekend.

73,ja9mat hidehiko.

> I will put the TX delay on tomorrow (Saturday) so you should be able to
> play with this and see how it works out. Will also put on the
> (optional) monitor of the CW output through the speaker.
>
> On Sunday I will be putting SSB on there which will allow this mode to
> be used along with data modes.

480. Re: New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 03:47:16 UTC
From: jabauzit
Topic: 17 Message: 480

Thanks Hideko san for the upload.
On my side I use the Santa Cruz and the Realtek on board sound. I was using also Asio4all V2.7 with 512 buffer and was a little surprised when you mentioned the latency as I did not notice it. Glad you solved it.
Regarding the audible click-noises, they are horrible, semi break in is a must.
On the side question: my Santa Cruz was installed first (I had the on board audio disabled) and have the Santa Cruz mixer in the task bar.
To test the TXRX I enabled the on-board sound and installed the driver but up to now I have been unable to have the corresponding mixer in the task bar. Each time I want to make some changes I have to resort to magic, going to the control panel ... and finally reach the Realtek mixer. Does anyone know how to fix this problem?

Jean-Claude PJ2BVU

481. Re: [kgksdr] Re: Sidetone, CW delay and sequencing

Yahoo group: kgksdr
Date: 2006-12-16 09:44:22 UTC
From: Duncan Munro
Topic: 474 Message: 481

jabauzit wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
>> Hi Jean-Claude, quite a lot of info there ....
>
> Yes indeed Duncan. As you just implemented the CW part and will
> develop more I though it was a good idea to mention these ideas now.

Yes, please keep the ideas coming! I need all the feedback to get
things sorted out :-)

73,

Duncan
M0KGK

482. Re: [kgksdr] Re: New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 10:00:30 UTC
From: Duncan Munro
Topic: 17 Message: 482

jabauzit wrote:
> Thanks Hideko san for the upload.
> On my side I use the Santa Cruz and the Realtek on board sound. I was
> using also Asio4all V2.7 with 512 buffer and was a little surprised
> when you mentioned the latency as I did not notice it. Glad you solved it.
> Regarding the audible click-noises, they are horrible, semi break in
> is a must.

Is the click noise coming from the RX or being output by the TX? I can understand it coming from the RX as it's "always on" which is not a good way of doing things. Monitoring will have the following options:

1. RX on during TX (this is what happens now).
2. Mute RX during TX.
3. Mute RX and Monitor TX output (i.e., sidetone for CW).

That should give enough options

Also when the RX cuts in and out it needs to fade somehow, still thinking about how I can do that without introducing additional delays - watch this space....

483. Re: New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 10:19:07 UTC
From: qrper723
Topic: 17 Message: 483

Duncan,

Hi,well I agree it's enough for optional feature.
I will test the next version soon. hi.

ja9mat hidehiko.

> 1. RX on during TX (this is what happens now).
> 2. Mute RX during TX.
> 3. Mute RX and Monitor TX output (i.e., sidetone for CW).
>
> That should give enough options

484. KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 12:36:22 UTC
From: Duncan Munro
Topic: 484 Message: 484

I've just uploaded build 43 to the website at:

http://www.m0kgk.co.uk/sdr/download.php

The new upload has the following changes under Options -> Transceiver -> General:

* CW hold time (semi break in)
* CW monitor style
* CW monitor level

I will described them all in a bit more detail as the help file still needs to be updated :-)

CW HOLD TIME

This is the number of milliseconds after keying ends before the software goes from TX to RX. This is the delay for semi break in, I favour 250mS but you can pick any figure you want from 0mS to 1000mS.

CW MONITOR STYLE

Options are:

RX on during TX (as it did before)
RX mute during TX
TX monitor

The first one is RX on during TX which is the way the software worked before and was a bit clunky. I'm guessing that most ops would want one of the following two options instead.

RX mute during TX is the one you want if you have an external sidetone on your keyer.

TX monitor feeds the CW generated tone into the speaker output so you can hear what is being produced on the TX. This is the one to use if you don't have an external sidetone on your keyer, or you're using a hand key.

CW MONITOR LEVEL

Slide this left or right to decrease or increase the TX monitor level. This only works when CW Monitor Style is set to TX monitor.

Another thing that has been added when in RX mute or TX mon modes is to try and silence the thump as the receiver comes back in. It's a whole lot better now, but still further research is needed.

73,

Duncan
M0KGK

485. Re: New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 12:45:01 UTC
From: jabauzit
Topic: 17 Message: 485

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Is the click noise coming from the RX or being output by the TX? I can
> understand it coming from the RX as it's "always on" which is not a good
> way of doing things.

The click noise comes from the RX:
I have a switch in parallel with the key input and used it for the
test as using the keyer makes it difficult to see what is happening.
There is a click when I close the switch and when I open it. This
happens exactly the same when the line out is disconnected from the TX
input. I guess it comes from the RX muting circuit.

> Monitoring will have the following options:
>
> 1. RX on during TX (this is what happens now).
> 2. Mute RX during TX.
> 3. Mute RX and Monitor TX output (i.e., sidetone for CW).

I suppose when you say Mute RX you refer to the speaker output as the
RX is automatically muted during TX by the use of the Output Enable
pins of the FST3253.
I also guess that the clicks come from this way of muting the RX.

>
> That should give enough options
>
> Also when the RX cuts in and out it needs to fade somehow, still
> thinking about how I can do that without introducing additional delays

On a normal rig the audio does not fade out so I do not think that it
would be necessary to do so.

Jean-Claude PJ2BVU

486. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 13:40:38 UTC
From: qrper723
Topic: 484 Message: 486

Duncan,

Hi,
Thanks for new version.
It's okay about the click.
QSK works very smooth and I've QSOed a few stations now.
I have two problems as follows;

1)There is latency in the TX-Monitor <side-tone> mode.
So it's difficult for proper keying.
-> I'm still using ext-keyer's side-tone.

2)The side-tone can not be changed by moving the"CW Monitor
Level" slider.

If you could would you please confirm and fix them?

But I enjoy nice QSO with your SDR.

Thanks.

hidehiko ja9mat

> TX monitor feeds the CW generated tone into the speaker output so you
> can hear what is being produced on the TX. This is the one to use if
> you don't have an external sidetone on your keyer, or you're using a
> hand key.
>
> CW MONITOR LEVEL
>
> Slide this left or right to decrease or increase the TX monitor level.
> This only works when CW Monitor Style is set to TX monitor.

487. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 13:41:01 UTC
From: qrper723
Topic: 484 Message: 487

Duncan,

Hi,
Thanks for new version.
It's okay about the click.
QSK works very smooth and I've QSOed a few stations now.
I have two problems as follows;

1)There is latency in the TX-Monitor <side-tone> mode.
So it's difficult for proper keying.
-> I'm still using ext-keyer's side-tone.

2)The side-tone can not be changed by moving the"CW Monitor
Level" slider.

If you could would you please confirm and fix them?

But I enjoy nice QSO with your SDR.

Thanks.

hidehiko ja9mat

> TX monitor feeds the CW generated tone into the speaker output so you
> can hear what is being produced on the TX. This is the one to use if
> you don't have an external sidetone on your keyer, or you're using a
> hand key.
>
> CW MONITOR LEVEL
>
> Slide this left or right to decrease or increase the TX monitor level.
> This only works when CW Monitor Style is set to TX monitor.

488. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 13:53:09 UTC
From: Duncan Munro
Topic: 484 Message: 488

qrper723 wrote:
>
> Duncan,
>
> Hi,
> Thanks for new version.
> It's okay about the click.
> QSK works very smooth and I've QSOed a few stations now.
> I have two problems as follows;
>
> 1)There is latency in the TX-Monitor <side-tone> mode.
> So it's difficult for proper keying.
> -> I'm still using ext-keyer's side-tone.
>
> 2)The side-tone can not be changed by moving the"CW Monitor
> Level" slider.
>
> If you could would you please confirm and fix them?

Hi Hide, the second question is easy to answer first as I got caught by this too. You need to press the [Apply] button to set the monitor level which is not very intuitive. I may move the monitor level slider onto the main screen where it will work in real time.

The first question not so easy to answer, I'm using the Delta-66 with native drivers and 1024 byte buffer size on 48kHz and I cannot notice the latency at all. I will play around with a few things to see if I can make it worse to see what might be causing this for you.

Also can you let me know some info about your PC, what processor/speed, operating system, is serial port built in or on a USB converter. Thanks.

Good to hear you are getting QSO's. I haven't had one yet!

73,

Duncan
M0KGK

489. Re: [kgksdr] Re: New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2006-12-16 14:02:52 UTC
From: Duncan Munro
Topic: 17 Message: 489

jabauzit wrote:
> I suppose when you say Mute RX you refer to the speaker output as the
> RX is automatically muted during TX by the use of the Output Enable
> pins of the FST3253.

Hi Jean-Claude, there is an Output Enable but still quite a lot of
leakage from the TX into the RX which can overload both the hardware and
software side of the receiver easily.

>> Also when the RX cuts in and out it needs to fade somehow, still
>> thinking about how I can do that without introducing additional delays
>
> On a normal rig the audio does not fade out so I do not think that it
> would be necessary to do so.

There is no fade out but a little fade in (10-20mS) which seems to help.

73,

Duncan
M0KGK

490. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 15:12:02 UTC
From: qrper723
Topic: 484 Message: 490

Duncan,

All is ok about your answer.

Well my using PC is as follows;

1)Mobile Pentium 1.73GHz with 512MB RAM
2)Model: HP Compaq nx6120
3)Do not use the Serial to USB converter,
directly connect to the COM1 port of PC
4)Win-XP SP Home Edtition with SP2
5)Soundblaster Audigy NX2 USB
(External-sound using for Speaker-out and I/Q input-QSD)
6)SoundMAX(Internal-sound using for I/Q output-QSE)
7)Sampling:48KHz and ASIO4ALL v2.7 buffer size:512byte

I know that my environment is NOT enough for SDR setting.
I also feel the latency while using the PowerSDR.
It is better to use the desktop PC for SDR but I have no more
space to place. hi.

Thanks again.

hidehiko ja9mat.

> The first question not so easy to answer, I'm using the Delta-66 with
> native drivers and 1024 byte buffer size on 48kHz and I cannot notice
> the latency at all. I will play around with a few things to see if I
> can make it worse to see what might be causing this for you.
>
> Also can you let me know some info about your PC, what processor/speed,
> operating system, is serial port built in or on a USB converter.
Thanks.
>
> Good to hear you are getting QSO's. I haven't had one yet!
>
> 73,
>
> Duncan
> M0KGK
>

491. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2006-12-16 15:32:45 UTC
From: Duncan Munro
Topic: 484 Message: 491

qrper723 wrote:
> Duncan,
>
> All is ok about your answer.
>
> Well my using PC is as follows;
>
> 1)Mobile Pentium 1.73GHz with 512MB RAM
> 2)Model: HP Compaq nx6120
> 3)Do not use the Serial to USB converter,
> directly connect to the COM1 port of PC
> 4)Win-XP SP Home Edtition with SP2
> 5)Soundblaster Audigy NX2 USB
> (External-sound using for Speaker-out and I/Q input-QSD)
> 6)SoundMAX(Internal-sound using for I/Q output-QSE)
> 7)Sampling:48KHz and ASIO4ALL v2.7 buffer size:512byte
>
> I know that my environment is NOT enough for SDR setting.
> I also feel the latency while using the PowerSDR.
> It is better to use the desktop PC for SDR but I have no more
> space to place. hi.

Hi Hide, thanks for the info.

Just a thought, I was getting very long delays using ASIO4all when I had
"Use Hardware Buffer" checked, this is the only thing I can think of.
Everything else on your list looks good.

73,

Duncan
M0KGK

492. KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 02:43:28 UTC
From: qrper723
Topic: 484 Message: 492

Duncan,

Hi,I found the better setting to improve the latency of side-tone.
I think that the USB Soundcard <Audigy 2NX> may add significant
processor overhead compared to PCI bus card.
And also I think the USB bus is NOT faster than PCI bus in its
data transmit.

So I've changed the wiring configuratuon as below;

```
----------------------------------------------------------------
Before After
----------------------------------------------------------------
I/Q OUT SoundMAX <Motherboard> SB Audigy <USB>
Audio OUT SB Audigy <USB> SoundMAX <Motherboard>
----------------------------------------------------------------
```

Above setting decrease the latency of Audio OUT but also it
increase the latency of I/Q OUT.

In CW-QSO operation it's important to be heard TX's side-tone
at the same time rather than its delay of TX-out.
The transmitting wave has a little latency but it's not a problem.
(about 200 to 400mSec)

So I can make 4-QSOs with JA-QRPer.
The side-tone follows with keying and it's enough to make QSO!
Of course the receiver is high performance and I catched the
weak QRP stations well.

But I can not send them my RIG is....
It's deifficult to tell them about SDR-Transceiver. Hi.
Do you have a good idea to introduce the SDR rig in CW QSO?

I will adjust the transmitting image reduction from now.

Thanks again.
hidehiko ja9mat.

> Just a thought, I was getting very long delays using ASIO4all when I
> had "Use Hardware Buffer" checked, this is the only thing I can think
> of.
> Everything else on your list looks good.
> Duncan

493. Re: KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 02:50:40 UTC
From: qrper723
Topic: 484 Message: 493

Sorry the text is not good to present my confuguration changes.
I uploaded the new setting in JA9MAT's file folder.
They are "before" and "after" you can see.

73, ja9mat hidehiko.

494. KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 04:14:01 UTC
From: jabauzit
Topic: 494 Message: 494

Hi Duncan,
The semi break in feature is very nice, now the clicks disappeared but the first and the last which is not a problem.

With my setting the side tone latency makes it impossible to send correctly. I tried with hardware buffers and without but there is no difference on my side. Using the keyer side tone is no problem even if the CW going thru the antenna - the dummy load in my case - is slightly delayed.

I will also add a relay to switch line out between the speaker and the TX for 2 reasons:
* The mixer of the on board sound does not show up in the task bar and I have to go to the control panel.
* I want to make some test with Power SDR which supports only one sound card.

In such a case what happens with "CW monitor style" when set to "Mute RX during TX" or "TX Monitor"?

Regarding the hardware muting of the RX during transmit and the leakage I cannot tell as I use a dummy load for my tests.

Jean-Claude PJ2BVU

495. Re: [kgksdr] KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 12:00:37 UTC
From: Duncan Munro
Topic: 484 Message: 495

qrper723 wrote:

> But I can not send them my RIG is....
> It's deifficult to tell them about SDR-Transceiver. Hi.
> Do you have a good idea to introduce the SDR rig in CW QSO?

That's a good point, how about...

TX HR IS SDR SOFTROCK

Even if an op has not heard of Softrock, I'm sure that many will have heard of SDR.

496. Re: [kgksdr] KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 12:08:07 UTC
From: Duncan Munro
Topic: 494 Message: 496

jabauzit wrote:
> Hi Duncan,
> The semi break in feature is very nice, now the clicks disappeared but
> the first and the last which is not a problem.
>
> With my setting the side tone latency makes it impossible to send
> correctly. I tried with hardware buffers and without but there is no
> difference on my side. Using the keyer side tone is no problem even if
> the CW going thru the antenna - the dummy load in my case - is
> slightly delayed.
>
> I will also add a relay to switch line out between the speaker and the
> TX for 2 reasons:
> * The mixer of the on board sound does not show up in the task bar and
> I have to go to the control panel.
> * I want to make some test with Power SDR which supports only one
> sound card.
>
> In such a case what happens with "CW monitor style" when set to "Mute
> RX during TX" or "TX Monitor"?

This is an odd one as the same line is being used for two different functions at the same time.

TX is processed before RX from build 43 onwards, so the IQ signal would be created in the output buffer. This would then be overwritten by the RX signal. For "Mute Rx during TX" this would mean it is overwritten with zero and for "TX Monitor" the IQ signal would be replaced by an audio tone at 700Hz or thereabouts.

The former would cause zero output and the latter would give TX output at centre-700Hz and centre+700Hz.

I will put some code in there to do nothing with the RX monitor if the same card channel is being used for RX and TX.

73,

Duncan
M0KGK

497. Re: KGKSDR Build 43

Yahoo group: kgksdr
Date: 2006-12-17 12:42:33 UTC
From: qrper723
Topic: 484 Message: 497

Duncan,

Thanks it's good sound!
I will use.

hidehiko ja9mat

> TX HR IS SDR SOFTROCK
>
> Even if an op has not heard of Softrock, I'm sure that many will have
> heard of SDR.

498. Re: Sound card testing

Yahoo group: kgksdr
Date: 2006-12-20 05:06:51 UTC
From: artartxx
Topic: 465 Message: 498

Look in the file section

--- In kgksdr@yahoogroups.com, "olivier_maillard2000" <maillard@...>
wrote:
>
> Hello,
> I just purchased a Behringer FCA202 Audio card.
> Is there a simple way to test the performance of a sound card.
> Is there any tools or software allowing to mesure the S/N at diffrents
> frequency ?
>
> 73's de Olivier HB9TOB
>

499. Suppression Of Noise "Clicks"?

Yahoo group: kgksdr
Date: 2006-12-20 13:09:48 UTC
From: n3hkn
Topic: 499 Message: 499

Duncan,
On 40M I have periodic clicks, or pops, depending upon your characterization. Anyhow, they hit the agc and cause a momentary signal dropout until the AGC recovers equilibrium. I have not found any ANL settings that have any effect single these are single events spaced far apart.

Would it make sense to be able to user adjust the attack delay for AGC? There might be a delay that ignores the click but still responds in time to prevent a burst of loud audio.

As soon as Tiny releases the TXRX kits I will turn on my soldering iron. Thanks for the xmit portion of the program.

Regards,
Dick N3HKN

500. Working well with V6-RxTx

Yahoo group: kgksdr
Date: 2006-12-29 14:21:00 UTC
From: qrper723
Topic: 500 Message: 500

Hi,

How are you doing?

I've finished Softrock V6-RxTx now and am testing it with
your KGKSDR(TX version).
It works well and also the TX image rejection is good result.

Both the V6-Exciter and RxTx are work with your software.

Thanks and hope you happy new year.

ja9mat hidehiko.

501. Re: [kgksdr] Working well with V6-RxTx

Yahoo group: kgksdr
Date: 2006-12-29 15:37:22 UTC
From: Duncan Munro
Topic: 500 Message: 501

qrper723 wrote:
> Hi,
>
> How are you doing?
>
> I've finished Softrock V6-RxTx now and am testing it with
> your KGKSDR(TX version).
> It works well and also the TX image rejection is good result.
>
> Both the V6-Exciter and RxTx are work with your software.
>
> Thanks and hope you happy new year.

Hi Hide, thanks for the feedback and Happy New Year to you too!

I'll be spending a bit of time on Sunday on KGKSDR again and hoping to
get something up and running with the SSB side.

73,

Duncan
M0KGK

502. Re: Working well with V6-RxTx

Yahoo group: kgksdr
Date: 2006-12-29 22:27:38 UTC
From: qrper723
Topic: 500 Message: 502

Duncan,

OK.
I'm looking forward your progress in 2007.

Thanks and HNY to you & your family!

hidehiko ja9mat

> I'll be spending a bit of time on Sunday on KGKSDR again and hoping to
> get something up and running with the SSB side.

503. Re: Working well with V6-RxTx

Yahoo group: kgksdr
Date: 2006-12-31 17:26:28 UTC
From: Karl-Heinz
Topic: 500 Message: 503

Hello Duncan,

i have also test your software and the TX Image rejection works good.
I done some CW test with my friend on 40m with the Softrock RXTX and
now waiting for the 6.1 upgrade daughter board.

You wrote:
>I'll be spending a bit of time on Sunday on KGKSDR again and hoping
to get something up and running with the SSB side.

Yes thats would be nice, because i am looking forward to test the TRX
Board with PSK31 and HELL MODE on 40m. This is ideal for low Power
Tests :)

Thank you for the Hamspirit, wish you all the best for 2007,

Best regards,
Karl-Heinz
DL6EBS

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> qrper723 wrote:
> > Hi,
> >
> > How are you doing?
> >
> > I've finished Softrock V6-RxTx now and am testing it with
> > your KGKSDR(TX version).
> > It works well and also the TX image rejection is good result.
> >
> > Both the V6-Exciter and RxTx are work with your software.
> >
> > Thanks and hope you happy new year.
>
> Hi Hide, thanks for the feedback and Happy New Year to you too!
>
> I'll be spending a bit of time on Sunday on KGKSDR again and hoping to
> get something up and running with the SSB side.
>
> 73,
>
> Duncan
> M0KGK
>

504. Re: Working well with V6-RxTx

Yahoo group: kgksdr
Date: 2006-12-31 22:17:45 UTC
From: tormod_johansen
Topic: 500 Message: 504

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

> I'll be spending a bit of time on Sunday on KGKSDR again and hoping to
> get something up and running with the SSB side.
>
> 73,
>
> Duncan
> M0KGK
>

That would be nice.

How about Synchronous AM and Dual Side Band (DSB)?

And a wider filter possibility on USB RX (For DRM reception) 10 and 20 khz on the Decoder software.
I have tested with the DREAM DRM software decoder and it is getting locked but no audio due to the low BW (4.5khz USB and the transmission is 10khz).

73,
and a happy new year.

Tormod
LA4ELA

505. ASIO drivers

Yahoo group: kgksdr
Date: 2007-01-03 16:16:12 UTC
From: aarhus_ca
Topic: 505 Message: 505

Hi
I am a new member; and just played with the software last night - the last receiving version works fine - but I had a problem with the new RXTX version because I cannot choose different sound cards.....
Is there a possibility of having the ASIO input and output being different cards? By the way - the same issue occurs with the PowerSDR software too.
I have a Delta 44 for input and onboard Nvidia for output - I may have to change the output to use my RXTXbeta6.0 softrock - but to just listen; I need to use the Nvidia.

Thanks!
72 John VE3NFK

506. Re: [kgksdr] ASIO drivers

Yahoo group: kgksdr
Date: 2007-01-03 17:46:19 UTC
From: Duncan Munro
Topic: 505 Message: 506

aarhus_ca wrote:
> Hi
> I am a new member; and just played with the software last night - the
> last receiving version works fine - but I had a problem with the new
> RXTX version because I cannot choose different sound cards.....
> Is there a possibility of having the ASIO input and output being
> different cards? By the way - the same issue occurs with the PowerSDR
> software too.
> I have a Delta 44 for input and onboard Nvidia for output - I may have
> to change the output to use my RXTXbeta6.0 softrock - but to just
> listen; I need to use the Nvidia.

Hi John, I've used different cards by running them through ASIO4ALL.

73,

Duncan
M0KGK

507. Re: ASIO drivers

Yahoo group: kgksdr
Date: 2007-01-03 18:37:07 UTC
From: jabauzit
Topic: 505 Message: 507

--- In kgksdr@yahoogroups.com, "aarhus_ca" <john.turgoose@...> wrote:
>
> Hi
> I am a new member; and just played with the software last night - the
> last receiving version works fine - but I had a problem with the new
> RXTX version because I cannot choose different sound cards.....
> Is there a possibility of having the ASIO input and output being
> different cards? By the way - the same issue occurs with the PowerSDR
> software too.
> I have a Delta 44 for input and onboard Nvidia for output - I may have
> to change the output to use my RXTXbeta6.0 softrock - but to just
> listen; I need to use the Nvidia.
>
May be you have an older version of Asio4all, 2.7 shows all sound cards. Regarding PowerSDR the ASIO support is "incomplete" as you cannot activate the ASIO control panel from within PowerSDR. It also seems like PowerSDR supports only one sound card.

Jean-Claude, PJ2BVU

508. Re: [kgksdr] ASIO drivers

Yahoo group: kgksdr
Date: 2007-01-03 23:54:02 UTC
From: John Turgoose
Topic: 505 Message: 508

Hi Duncan
Thanks for the reply....I found I was using an old ver of ASIO4ALL - now have 2.7 - and it took a lot of work - but finally working - so appreciate your reply

72 John VE3NFK

On 1/3/07, Duncan Munro <m0kgk@...> wrote:
> aarhus_ca wrote:
> > Hi
> > I am a new member; and just played with the software last night - the
> > last receiving version works fine - but I had a problem with the new
> > RXTX version because I cannot choose different sound cards.....
> > Is there a possibility of having the ASIO input and output being
> > different cards? By the way - the same issue occurs with the PowerSDR
> > software too.
> > I have a Delta 44 for input and onboard Nvidia for output - I may have
> > to change the output to use my RXTXbeta6.0 softrock - but to just
> > listen; I need to use the Nvidia.
>
> Hi John, I've used different cards by running them through ASIO4ALL.
>
> 73,
>
> Duncan
> M0KGK
>
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> Yahoo! Groups Links
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509. S Meter - CW vs SSB

Yahoo group: kgksdr
Date: 2007-01-05 16:18:50 UTC
From: n3hkn
Topic: 509 Message: 509

As the filter bandwidth is expanded the background noise (assuming no signal) increases the S Meter reading. I was wondering if this is the correct method for knowing what the background noise is? Is my background noise S5 or S7 depending upon filter selection?

This does not carry over to CW signals versus SSB. That is, SSB signals do not see a higher meter reading by virtue of the wider bandwidth used for them. Viewing a CW signal with various filters offers a consistent S Meter value.

I expect my RXTX by earlier February. I will use it on PSK and, if I muster the resolve, CW. The usual extensive compliments on your software are in order.

Thanks,
Dick N3HKN

510. Re: S Meter - CW vs SSB

Yahoo group: kgksdr
Date: 2007-01-06 20:47:05 UTC
From: Duncan Munro
Topic: 509 Message: 510

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> As the filter bandwidth is expanded the background noise (assuming no
> signal) increases the S Meter reading. I was wondering if this is the
> correct method for knowing what the background noise is? Is my
> background noise S5 or S7 depending upon filter selection?

Hi Dick,

This is a good question, and I must admit I don't know what the answer is. All I can tell you is the S meter works by taking the peak value in a signal. I guess opening the bandwidth will give you more peaks.

73,

Duncan
M0KGK

511. kgksdr-unsubscribe@yahoogroups.com

Yahoo group: kgksdr
Date: 2007-01-06 20:48:16 UTC
From: Luis
Topic: 511 Message: 511

kgksdr-unsubscribe@yahoogroups.com

512. SSB update

Yahoo group: kgksdr
Date: 2007-01-06 20:49:00 UTC
From: Duncan Munro
Topic: 512 Message: 512

Just an update on where things are with SSB....

I've got it transmitting on SSB now with the right sidebands etc., but getting some periodic buzzing which we won't need.

Will do a bit more on it tomorrow (Sunday) and hopefully nail the problem then.

73,

Duncan
M0KGK

513. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-06 22:17:55 UTC
From: verduynj
Topic: 484 Message: 513

Duncan,

Just to let you know that build 43 RXTX software is working very succesfully with the original RXTX and with the RXTX V6.1. Made a number of cw contacts. Thanks for a great job, looking forward to the SSB support...

Have some questions: RXTX V6.1 is two band - two crystals. I have created 3 additional configurations, Xtal 1 on 40 and 80 Meters and Xtal 2 on 40 and 80 meters. Is separate RX and TX calibration supported for each of the configs or is there only one table. When trying Manual RX calibration on 80 meters prog suffers from a "divide by zero"

With ASIO drivers is only 48 kbps supported?

best 73s

Jan G0BBL

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> I've just uploaded build 43 to the website at:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
>

514. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 00:24:08 UTC
From: Duncan Munro
Topic: 484 Message: 514

verduynj wrote:
> Duncan,
>
> Just to let you know that build 43 RXTX software is working very
> succesfully with the original RXTX and with the RXTX V6.1. Made a
> number of cw contacts. Thanks for a great job, looking forward to the
> SSB support...
>
> Have some questions: RXTX V6.1 is two band - two crystals. I have
> created 3 additional configurations, Xtal 1 on 40 and 80 Meters and
> Xtal 2 on 40 and 80 meters. Is separate RX and TX calibration supported
> for each of the configs or is there only one table. When trying Manual
> RX calibration on 80 meters prog suffers from a "divide by zero"

Hi Jan, there are two separate tables for each profile (one RX calibration table and one TX).

The divide by zero doesn't sound good at all, we did have a run of those about a year ago but I thought they had died off. That one might require a bit more investigation.

> With ASIO drivers is only 48 kbps supported?

I've only managed 48k with ASIO4all, but the shack machine downstairs is running the delta 44 with it's own native ASIO drivers at 96k with no problems.

73,

Duncan
M0KGK

515. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 01:31:56 UTC
From: Dave
Topic: 484 Message: 515

So far, KGKSDR (Build 43) is the only software I've been able to make transmit with my SR V6.0 RXTX. However, I've been having difficulty getting it to work with my Delta 44 card instead of using my SB Live! 5.1 (16-bit, 48k).

Both cards are installed in the same PC at the same time. I'm using ASIO4ALL v2.7 with the SB Live!. OS is XP Pro SP2.

If I enable the Delta 44 in ASIO4ALL, I get no audio in or out, regardless of which sound card (or combination) I'm trying to use. Disabling the SB Live! in ASIO4ALL doesn't help with trying to use only the Delta 44 with ASIO4ALL.

The Delta 44 does work for Rx I/Q in and Rx audio out if I use the M-Audio ASIO driver rather than ASIO4ALL. (As expected, no configuration in ASIO4ALL inhibits this operation when using the M-Audio ASIO driver). However, I cannot get Tx to work when using the M-Audio ASIO driver. Anytime I have the M-Audio driver selected and I go key-down, the KGKSDR sticks in key-down mode. At the same time, no audio comes out the selected Delta 44 output (so no Tx power). (KDKSDR does key PTT via the com port during this condition.) I have to terminate KGKSDR to "unstick" the key. Perhaps the app is getting stuck trying to output the TX I/Q to the Delta 44 (the 3/4 output; 1/2 is used for Rx audio out).

Also, I can rather regularly create a hang of the whole app by changing between ASIO4ALL and M-Audio's ASIO driver. Killing the app requires Windows Task Manager's End Task function. Also, switching between drivers doesn't properly repopulate the drop-down lists unless you click OK to close the Transceiver dialog box and reopen it.

Please let me know if there is something you can think of that I should change in my configuration to get this working with Tx on the Delta 44 or some combination of the SB Live! and the Delta 44.

As a separate item, I seem to get some faint clicking or buzzing noises on receive with either sound card. Sounds like a discontinuous waveform. It's worse if ANR is enabled. It's most noticeable when a CW signal is right on the edge of the filter window. I don't hear this when using other apps for Rx; it seems to be unique to KGKSDR. I'm curious if this is a characteristic of the current state of the DSP code or if this is something unique to my system.

I'm eager to get this sorted out. I'm not sure if I will be able to do SSB with the SB Live!-only configuration.

Dave, WA3OFF

516. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 16:54:42 UTC
From: Duncan Munro
Topic: 484 Message: 516

Hi Dave,

Dave wrote:
> Please let me know if there is something you can think of that I
> should change in my configuration to get this working with Tx on the
> Delta 44 or some combination of the SB Live! and the Delta 44.

I tried to use the internal soundcard _and_ Delta 44 through ASIO4all
and it really didn't like the Delta card at all.

The reason for this was I wanted to use the el-cheapo onboard AC97 for
RX speaker output as it already had speakers connected to it.

The ideal is to use the D44 for everything but it sounds like this is
not working too well for you. Can you confirm that your buffer size in
the Delta control panel is 1024 or higher? I've had some "fun" using
lower values than this.

73,

Duncan
M0KGK

517. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 17:45:44 UTC
From: Dave
Topic: 484 Message: 517

Duncan, thanks for the suggestions.

> I tried to use the internal soundcard _and_ Delta 44 through
ASIO4all
> and it really didn't like the Delta card at all.
>
> The reason for this was I wanted to use the el-cheapo onboard AC97
for
> RX speaker output as it already had speakers connected to it.

My desire as well, but I got around that by cabling the Delta 44's audio-out to the SB's line-in so that I didn't need to use the SB in KGKSDR. I've also just been plugging in headphones.

> The ideal is to use the D44 for everything but it sounds like this
is
> not working too well for you. Can you confirm that your buffer
size in
> the Delta control panel is 1024 or higher? I've had some "fun"
using
> lower values than this.

I had the Delta 44's DMA buffer size set at 512, but setting it to 2048 has made no difference. No change to the hang on key-down or the buzzing when using narrow CW filters (that noise seems to disappear when using wider filters, so it seems to be related to the DSP processing).

BTW, the M-Audio driver is the latest, reported as 5.10.00.0052 (downloaded 5.10.00.5052v3; original on CD was reported as 5.10.0036 I think).

Dave, WA3OFF

518. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 18:03:39 UTC
From: Dave
Topic: 484 Message: 518

> I had the Delta 44's DMA buffer size set at 512, but setting it to
> 2048 has made no difference.

Actually, it does improve operation at 96k by eliminating some pops and clicks. I had been testing at 48k where 512 was working just as well as 2048.

The filter-related buzzing is there either way and seems unrelated to buffering. It seems to be something that happens right at the edge of the filter window. If a CW signal is well centered, I don't really hear the buzzing. It's most noticeable when the signal peak is right on the edge of the filter window. Not really a problem, just something I observed.

Dave, WA3OFF

519. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 18:20:18 UTC
From: Duncan Munro
Topic: 484 Message: 519

Dave wrote:
>> I had the Delta 44's DMA buffer size set at 512, but setting it to
>> 2048 has made no difference.
>
> Actually, it does improve operation at 96k by eliminating some pops and
> clicks. I had been testing at 48k where 512 was working just as well
> as 2048.
>
> The filter-related buzzing is there either way and seems unrelated to
> buffering. It seems to be something that happens right at the edge of
> the filter window. If a CW signal is well centered, I don't really
> hear the buzzing. It's most noticeable when the signal peak is right
> on the edge of the filter window. Not really a problem, just something
> I observed.

Hi Dave, the buzzing is a documented "feature" which has been in there
since day 1 and is on the to-do list to get sorted out.

It's down to the way the filtering is carried out and needs looking at,
although I'm not likely to do anything with in until all the TX side is
sorted out.

73,

Duncan
M0KGK

520. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 18:28:21 UTC
From: Duncan Munro
Topic: 484 Message: 520

Dave wrote:

> I had the Delta 44's DMA buffer size set at 512, but setting it to
> 2048 has made no difference. No change to the hang on key-down or
> the buzzing when using narrow CW filters (that noise seems to
> disappear when using wider filters, so it seems to be related to
> the DSP processing).

The hanging sounds a bit worrying. Can you check a couple of things, on KGKSDR Options -> Transceiver -> General -> CW monitor style, it's best to set this to "RX mute during TX".

Also the Delta 44 control panel on the Hardware Settings tab, MultiTrack Driver Devices should be set to Independent.

Can you let me know how much CPU% typically is being used on receive, also are there any other applications running on the machine.

On the buzzing, there's a little bit of info on the post I made a couple of minutes back. Basically it needs fixing!

> BTW, the M-Audio driver is the latest, reported as 5.10.00.0052
> (downloaded 5.10.00.5052v3; original on CD was reported as 5.10.0036
> I think).

OK, I have 0051 here, I'll update and see if the slightly later version causes any problems.

73,

Duncan
M0KGK

521. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-07 20:38:53 UTC
From: Dave
Topic: 484 Message: 521

> The hanging sounds a bit worrying. Can you check a couple of things, on
> KGKSDR Options -> Transceiver -> General -> CW monitor style, it's best
> to set this to "RX mute during TX".

Yes, that's what I'm using. With Rx on during Tx, I get Rx audio out when hung (although no signals since PTT activates muting in the SoftRock). With Tx monitor I get no audio.

> Also the Delta 44 control panel on the Hardware Settings tab, MultiTrack
> Driver Devices should be set to Independent.

Was set to Single and In-sync, but changing to Independent made no difference.

> Can you let me know how much CPU% typically is being used on receive,
> also are there any other applications running on the machine.

About 48% CPU at 96k sampling. About 25% at 48k, but the hang happens at either rate. No difference if other apps are running or not. 768M of system memory allows for minimal page swapping, so no problem there either.

> On the buzzing, there's a little bit of info on the post I made a couple
> of minutes back. Basically it needs fixing!

Cool. I just wanted to make sure it wasn't unique to my configuration.

Dave, WA3OFF

522. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-10 19:29:43 UTC
From: verduynj
Topic: 484 Message: 522

Duncan,

Just some more feedback... Your implementation of manual TX image rejection is absolutely brilliant... On RXTX v6 and V6.1 I can easily set rejection to 50dB or better (more than 70dB with a little care +/- 18 KHz around the carrier with MP3 USB card... Calibration is a doddle.

Could you please please consider changing the Manual RX calibration in similar fashion as on TX with sliders? Alternatively if it is low on priority list, as a quick fix could you provide an additional coarse buttons so you can adjust phase in 1 degs steps? I have suspect that "Guess" may not always provide the best rejection.

Looks a"divide by zero" error occurs when attempting to save calibration on an image freq on 80 meters which is below 3500 Khz, Ie Carrier on 3507 Khz and saving cal point on 3490 KHz for wanted signal on 3524 KHz) Will get some more data during weekend.

best 73s.

Jan

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> verduynj wrote:
> > Duncan,
> >
> > Just to let you know that build 43 RXTX software is working very
> > succesfully with the original RXTX and with the RXTX V6.1. Made a
> > number of cw contacts. Thanks for a great job, looking forward to
the
> > SSB support...
> >
> > Have some questions: RXTX V6.1 is two band - two crystals. I have
> > created 3 additional configurations, Xtal 1 on 40 and 80 Meters
and
> > Xtal 2 on 40 and 80 meters. Is separate RX and TX calibration
supported
> > for each of the configs or is there only one table. When trying
Manual
> > RX calibration on 80 meters prog suffers from a "divide by zero"
>
> Hi Jan, there are two separate tables for each profile (one RX
> calibration table and one TX).
>

> The divide by zero doesn't sound good at all, we did have a run of
those
> about a year ago but I thought they had died off. That one might
> require a bit more investigation.
>
> > With ASIO drivers is only 48 kbps supported?
>
> I've only managed 48k with ASIO4all, but the shack machine
downstairs is
> running the delta 44 with it's own native ASIO drivers at 96k with
no
> problems.
>
>
> 73,
>
> Duncan
> M0KGK
>

523. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-13 02:26:22 UTC
From: Dave
Topic: 484 Message: 523

> Just some more feedback... Your implementation of manual TX image
> rejection is absolutely brilliant...

I must agree with that. Using my Sound Blaster card, it's quite apparent that a single setting for phase and gain balance is not anywhere near sufficient. It will be interesting to see how the Delta 44 card compares.

Dave

524. KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-14 15:45:58 UTC
From: Duncan Munro
Topic: 524 Message: 524

I've just uploaded build 45 to the website at:

http://www.m0kgk.co.uk/sdr/download.php

This version now has SSB and a mic gain control.

Level meter: Where it says "mic" under the gain control, the word will light up green if you have a signal coming in, amber for a high level signal and red for close to clipping. It's very basic and no substitute for a proper meter but better than nothing for now.

PTT is set up in Options -> Transceiver -> Hardware.

There is a basic image cancellation based on the manual TX calibration that's used for CW. It seems to work well with the Softrock RX/TX, although some experiments are still being conducted to see if it can be improved further.

73,

Duncan
M0KGK

525. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-14 16:08:45 UTC
From: philip_g7jur
Topic: 524 Message: 525

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:

Hi Duncan.

Just downloaded build 45.
The Tx sound quality is very good.
I will have a bit more of a play with it, but looking good so far.
Many thanks Philip g7jur.

>
> I've just uploaded build 45 to the website at:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
> This version now has SSB and a mic gain control.
>
> Level meter: Where it says "mic" under the gain control, the word will
> light up green if you have a signal coming in, amber for a high level
> signal and red for close to clipping. It's very basic and no
> substitute for a proper meter but better than nothing for now.
>
> PTT is set up in Options -> Transceiver -> Hardware.
>
> There is a basic image cancellation based on the manual TX calibration
> that's used for CW. It seems to work well with the Softrock RX/TX,
> although some experiments are still being conducted to see if it can
> be improved further.
>
> 73,
>
> Duncan
> M0KGK
>

526. Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-14 17:00:28 UTC
From: Dave
Topic: 484 Message: 526

The Tx sticking active was caused by not having set both the Mic input and Tx IQ output hardware selections (now set to Audio 3).

In a e-mail, Duncan asked about these settings and when I saw they were blank, the likely cause of the hang became apparent.

Thanks Duncan.

Dave, WA3OFF

527. Re: [kgksdr] Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-14 17:13:17 UTC
From: Duncan Munro
Topic: 524 Message: 527

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> Hi Duncan.
>
> Just downloaded build 45.
> The Tx sound quality is very good.
> I will have a bit more of a play with it, but looking good so far.
> Many thanks Philip g7jur.

Hi Philip,

Thanks for the feedback - it sounded very sweet here while I was trying it out in the shack and much better than the dalek type noises it had been making for weeks.

I need to sort out a level meter and optional RF clipper for completeness, also some kind of automatic level control to prevent clipping of the audio side of things.

73,

Duncan
M0KGK

528. Re: [kgksdr] Re: KGKSDR Build 43 released: CW improvements

Yahoo group: kgksdr
Date: 2007-01-14 17:50:15 UTC
From: Duncan Munro
Topic: 484 Message: 528

Dave wrote:
> The Tx sticking active was caused by not having set both the Mic input
> and Tx IQ output hardware selections (now set to Audio 3).
>
> In a e-mail, Duncan asked about these settings and when I saw they
> were blank, the likely cause of the hang became apparent.

Hi Dave, I've now put an inhibit in there for future versions so the PTT
or key cannot be actioned unless both Mic and TX IQ have something in there.

73,

Duncan
M0KGK

529. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-15 11:38:08 UTC
From: qrper723
Topic: 524 Message: 529

Duncan,

Thanks for update!
I've downloaded and run the program.
In receiving (Not Transmit);

SSB is good but CW <both CWL/CLU> is bad here...
No signal appears and some noise appears
after a few seconds.

Is there anythnig to do for this new version?

Anyway I will test with transmitting SSB.

Thanks again.

73,ja9mat hidehiko.

> I've just uploaded build 45 to the website at:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
> This version now has SSB and a mic gain control.

530. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-15 12:23:09 UTC
From: Duncan Munro
Topic: 524 Message: 530

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
> SSB is good but CW <both CWL/CLU> is bad here...
> No signal appears and some noise appears
> after a few seconds.

Hi Hide,

I am sentenced to shame here - CW was broken, and I also got a note from Dave WA3OFF to tell me the filters on CW were acting strangely.

Anyway, build 46 is available and normal service with CW has been restored along with a few other bonus items I made up last night for SSB. Download available from:

http://www.m0kgk.co.uk/sdr/download.php

The full change list for this build is:

==========

FIXED: Cannot go into TX mode unless Mic input and TX IQ output sound cards have been defined.

FIXED: Cured flickering with the S meter.

FIXED: Problems with no audio on CW RX.

FIXED: Problems with CW filter sizes.

ADDED: TX audio level meter.

ADDED: Clip for tx speech which uses the IF clipper paradigm.

==========

The speech clipper also has a noise gate which you will need if you push the clipper hard.

73,

Duncan
M0KGK

531. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-15 13:05:14 UTC
From: qrper723
Topic: 524 Message: 531

Thanks dear Duncan quickly!
Ok it works now and will test the "BONUS" mode.

73 ja9mat hidehiko.

> Anyway, build 46 is available and normal service with CW has been
> restored along with a few other bonus items I made up last night for
> SSB. Download available from:

532. Trouble with multiple sound cards

Yahoo group: kgksdr
Date: 2007-01-15 20:53:20 UTC
From: jeanrenier2004
Topic: 532 Message: 532

Duncan,

I am a regular user of KGKSDR 1.0.1.33 with the SR40 front end or with a homebuild FlexRadio look alike (receiver). Very grateful for this great piece of code.

Typically I would use two sound cards, a good SB-Audigy-SE at 96ks/s and 24bit for the I/Q input and audio out and a less good SB-PCI-128 at 48ks/s and 16bit as the input for digital modes software such as MultiPSK etc. The line-out of the first is coupled to the line-in of the second with a small stereo patch cable.

This worked fine until I upgraded my system in order to get some extra processing power: new motherboard, CPU and memory. I tried the same setup, save for the SB-PCI-128, I use now the on-board sound based on the CM6501 chip (which is almost good). KGKSDR works OK but whenever I start MultiPSK, KGKSDR would start signalling (in morse code) that it is in overload, though it is clearly not the case. Changing the settings in KGKSDR from e.g. 96ks/s to 48ks/s would revert to normal for a very short while (a few seconds, shorter for 96ks/s than for 48ks/s).

I tried almost the same setup using VAC: SB-Audigy-SE input for KGKSDR, the output of KGKSDR to the VAC and the input of MultiPSK to the same VAC. In order to monitor the signal, the input of an Audio Repeater was also connected to VAC, while its output was connected to the on-board sound output.
This setup works great, though it is quite elaborate to setup, so I would prefer the previous one, especially because I have some older programs (Wacars decoding) that would not work with VAC.

Any clues ?

All the best,
Jean.

533. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-15 21:16:36 UTC
From: Dave
Topic: 524 Message: 533

> Anyway, build 46 is available and normal service with CW has been
> restored

Excellent! It works much better now. At 1 Watt, CW is my primary mode, but it will be interesting to see if anyone can hear it on SSB.

I'm glad it wasn't my error this time. I was beginning to worry. :-)

The worst I've found in Build 46 is that mousing over the Mic gain control produces "TX Power output" as the help text.

Dave, WA3OFF

534. Re: [kgksdr] Trouble with multiple sound cards

Yahoo group: kgksdr
Date: 2007-01-15 21:44:44 UTC
From: Duncan Munro
Topic: 532 Message: 534

jeanrenier2004 wrote:

> code) that it is in overload, though it is clearly not the case.
> Changing the settings in KGKSDR from e.g. 96ks/s to 48ks/s would
> revert to normal for a very short while (a few seconds, shorter for
> 96ks/s than for 48ks/s).

This may not be an overload problem, I've seen this before under
different circumstances and need to dig a bit deeper.

73,

Duncan
M0KGK

535. Re: [kgksdr] Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-15 21:46:08 UTC
From: Duncan Munro
Topic: 524 Message: 535

Dave wrote:

> The worst I've found in Build 46 is that mousing over the Mic gain
> control produces "TX Power output" as the help text.

It *is* TX power output in a crude way ;-)

I've just fixed it so it will be OK in the next release.

73,

Duncan
M0KGK

536. Help!

Yahoo group: kgksdr
Date: 2007-01-16 04:56:33 UTC
From: jabauzit
Topic: 536 Message: 536

Thanks for the new version Duncan.
Today I wanted to set up KGKSDR for SSB transmit but I failed miserably and I do not think the problem comes from KGKSDR but from my total lack of understanding of the Windows sound system.
I worked all my life with computers and usually can figure out about anything but this time I have been knocked down by Windows.
The setting:
Santa Cruz sound board used for input from the RXTX and output to the speakers.
Build in sound board: line out to the RXTX.
This setting works perfectly well for CW.
The microphone is on the microphone input of the Santa Cruz.
This works well with Skype.
Now when I try to transmit SSB with KGKSDR I do not get any output.
I managed to get the output working by doing the following:
In the Santa Cruz Control Panel, in the "Record Settings" I changed "Record Source" from Line In to Microphone but now on receive I do no get anything.
In ASIO4ALL control panel I have:
Realtek HDA
In: 2x 8-48kHz, 16Bits
Out: 8x 0.1-192kHz, 32Bits
Santa Cruz(tm) WDM Interface
Out: 2x 8-48kHz, 16Bits
In: 2x 8-48kHz, 16Bits

In KGKSDR, Transceiver Options, Hardware Tab:
For the Realtek the various Input/Output Connectors have different names, for example the Line Out which goes to the TX has the name
Realtek HD Audio rear ou 1/Realtek HD Audio rear ou 2
ou meaning out I suppose.
For the Santa Cruz they have all the same name:
Santa Cruz(tm) 1/Santa Cruz(tm) 2

As I am not using the Input of the Realtek I suppose I could connect the microphone there and I guess it would work. May be I will do that tomorrow.
But I would like to know how I can use the microphone when connected to the Santa Cruz.

Thanks, Jean-Claude PJ2BVU

537. Re: [kgksdr] Help!

Yahoo group: kgksdr
Date: 2007-01-16 07:31:53 UTC
From: Duncan Munro
Topic: 536 Message: 537

jabauzit wrote:

> In KGKSDR, Transceiver Options, Hardware Tab:
> For the Realtek the various Input/Output Connectors have different
> names, for example the Line Out which goes to the TX has the name
> Realtek HD Audio rear ou 1/Realtek HD Audio rear ou 2
> ou meaning out I suppose.
> For the Santa Cruz they have all the same name:
> Santa Cruz(tm) 1/Santa Cruz(tm) 2

Can I just check that you have:

Driver: ASIO4ALL v2

RX IQ input: Santa Cruz 1/2
Speaker out: Santa Cruz 1/2

Mic input: Realtek
TX IQ output: Realtek

73,

Duncan
M0KGK

538. Re: Help!

Yahoo group: kgksdr
Date: 2007-01-16 12:01:51 UTC
From: jabauzit
Topic: 536 Message: 538

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jabauzit wrote:
>
> > In KGKSDR, Transceiver Options, Hardware Tab:
> > For the Realtek the various Input/Output Connectors have different
> > names, for example the Line Out which goes to the TX has the name
> > Realtek HD Audio rear ou 1/Realtek HD Audio rear ou 2
> > ou meaning out I suppose.
> > For the Santa Cruz they have all the same name:
> > Santa Cruz(tm) 1/Santa Cruz(tm) 2
>
> Can I just check that you have:
>
> Driver: ASIO4ALL v2
>
> RX IQ input: Santa Cruz 1/2
> Speaker out: Santa Cruz 1/2
>
> Mic input: Realtek
> TX IQ output: Realtek
>
>
Hi Duncan,

Correct except for
Mic Input: Santa Cruz 1/2

From your question I guess that RX IQ Input and Mic Input have to be
on different sounds boards.
I was planning to test it. I will do it this evening as I don't have
time now.

Thanks
Jean-Claude PJ2BVU

539. Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-16 16:38:27 UTC
From: joe price
Topic: 524 Message: 539

Duncan,

I've used your Build 45 release with Tony's TXRX board
to make a contact on 40mtrs and received a excellent TX
audio report although I haven't tried the TX image routine yet.
I'm using a Delta 44 audio card witha a old P3 computer (1gig)
when running at 48khz sampling CPU usage is about 50% in
receive and 70% in TX. Wnen I try 96khx sample rate on RX
CPU usage is about 90% on RX and 100% in TX. Is thier anything
that I can do to reduce CPU usage? If not what speed CPU is
needed to run at 96khz sample rate?

Tnx Joe wa9cgz

540. Re: [kgksdr] Re: KGKSDR Build 45 released: SSB capability

Yahoo group: kgksdr
Date: 2007-01-16 16:50:27 UTC
From: Duncan Munro
Topic: 524 Message: 540

joe price wrote:
> Duncan,
>
> I've used your Build 45 release with Tony's TXRX board
> to make a contact on 40mtrs and received a excellent TX
> audio report although I haven't tried the TX image routine yet.
> I'm using a Delta 44 audio card witha a old P3 computer (1gig)
> when running at 48khz sampling CPU usage is about 50% in
> receive and 70% in TX. Wnen I try 96khx sample rate on RX
> CPU usage is about 90% on RX and 100% in TX. Is thier anything
> that I can do to reduce CPU usage? If not what speed CPU is
> needed to run at 96khz sample rate?

Hi Joe,

I was half expecting TX CPU to be less than RX, but it's higher as you rightly say. I think it's because during TX both the receiver and transmitter are on, I'll see if I can do something to fix this.

BTW, if you are at 90% CPU that might be a wee bit too close and you could get the odd dropout. I can only just squeeze 96k out of the shack 1200MHz Athlon machine, but the wind has to be blowing in the right direction - it's really borderline.

Let's see what we can do to cut the TX CPU anyway...

73,

Duncan
M0KGK

541. KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-17 01:46:55 UTC
From: qrper723
Topic: 541 Message: 541

Hi Duncan,

I'm testing SSB transmission with Build46.
But I can not TX both SSB and CW.
I successed the CW TX by the Build43 last weekend
But it does not run.
No Sidetone is heard while in TX mode.

So I changed the software to PowerSDR and saw that the TX is OK.
I monitoroed the IQ sound out of KGKSDR Build46 while TX and
I found that no IQ out signals come into my speaker!

Maybe it is my mistake...and I'd like to back to the Build43
of good working here in CW TX.

Please let me know whether you could upload Buid43 again or not.

Anyway my experiment for TX of SSB wil be in progress.
My plan is that KGKSDR to be a all digital modes transceiver
such as PSK,MFSK and RTTY.

Thanks for your good work.
73, ja9mat hidehiko.

>Re: KGKSDR Build 45 released: SSB capability
>Thanks dear Duncan quickly!
>Ok it works now and will test the "BONUS" mode.
>73 ja9mat hidehiko.

>> Anyway, build 46 is available and normal service with CW has been
>> restored along with a few other bonus items I made up last night for
>> SSB. Download available from:

542. Re: [kgksdr] KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-17 06:54:51 UTC
From: Duncan Munro
Topic: 541 Message: 542

qrper723 wrote:

> Maybe it is my mistake...and I'd like to back to the Build43
> of good working here in CW TX.

Hi Hide,

You can download build 43 from http://www.m0kgk.co.uk/sdr/kgksdr11_43.exe

I will look at the other issues for you.

73,

Duncan
M0KGK

543. Re: KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-17 12:03:45 UTC
From: qrper723
Topic: 541 Message: 543

Duncan,

Thanks a lot.
I will continue the testing tonight and report you again.
73, ja9mat

> You can download build 43 from
http://www.m0kgk.co.uk/sdr/kgksdr11_43.exe

544. Re: KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-17 18:48:44 UTC
From: Duncan Munro
Topic: 541 Message: 544

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
> Hi Duncan,
>
> I'm testing SSB transmission with Build46.
> But I can not TX both SSB and CW.
> I successed the CW TX by the Build43 last weekend
> But it does not run.
> No Sidetone is heard while in TX mode.
>
> So I changed the software to PowerSDR and saw that the TX is OK.
> I monitoroed the IQ sound out of KGKSDR Build46 while TX and
> I found that no IQ out signals come into my speaker!

Hi Hide,

I did some more checking and have uploaded build 47. The monitoring at this end is good on CW for monitor through RX or by monitoring the send line. Also IQ out is good, I've been monitoring on another RX.

Mute RX during TX now gives silence and drops CPU quite a lot, but for the other two choices you should be getting a good sidetone signal.

Latest download from: http://www.m0kgk.co.uk/sdr/download.php

73,

Duncan
M0KGK

545. Re: KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-18 01:26:43 UTC
From: qrper723
Topic: 541 Message: 545

Hi dear Duncan.

Thanks for your update of Build-47!

Yes! The CPU load is less than Build-43.

But I still can not Tx CW and not get the sidetone...
It must be chnaged in my configuratuon.
Anyway I will continue to fix my problem.

Thanks again & 73.

ja9mat hidehiko.

> I did some more checking and have uploaded build 47. The monitoring
> at this end is good on CW for monitor through RX or by monitoring the
> send line. Also IQ out is good, I've been monitoring on another RX.
>
> Mute RX during TX now gives silence and drops CPU quite a lot, but for
> the other two choices you should be getting a good sidetone signal.

546. Re: KGKSDR Build46 Questions

Yahoo group: kgksdr
Date: 2007-01-18 10:17:48 UTC
From: qrper723
Topic: 541 Message: 546

Thanks dear Duncan,

I've fixed my problem of PC configuration.
Your latest version works well with both CW and SSB.
Next I will try to TX the PSK and RTTY signal from this version.
It will need VAC software for re-direct the sound card between
KGKSDR and Digital mode decode software.

I will try and report again.

Thanks again 73, ja9mat hidehiko.

> > I did some more checking and have uploaded build 47. The monitoring
> > at this end is good on CW for monitor through RX or by monitoring the
> > send line. Also IQ out is good, I've been monitoring on another RX.
> >
> > Mute RX during TX now gives silence and drops CPU quite a lot, but for
> > the other two choices you should be getting a good sidetone signal.
>

547. Build 47 is working nicely

Yahoo group: kgksdr
Date: 2007-01-18 13:34:30 UTC
From: Dave
Topic: 547 Message: 547

I used Build 47 in the NAQCC QRP Sprint last night. It performed nicely. I used a straight key and KGKSDR set for Tx sidetone, no latency issues at all. With 1W from the SR RXTX I had 3 QSOs; the best DX was 360 miles to Canada.

Thanks Duncan.

Dave, WA3OFF

548. no sound on cw

Yahoo group: kgksdr
Date: 2007-01-18 15:34:00 UTC
From: AD6HF
Topic: 548 Message: 548

Hello,
I've downloaded the transceiver software,I using a delta-44 sound card
that works fine with power sdr winrad and rocky.
The KGKSDR transceiver software receives fine on ssb but no sound on cw.
Can you help me?

73 Bob ad6hf

549. Re: [kgksdr] no sound on cw

Yahoo group: kgksdr
Date: 2007-01-18 15:46:53 UTC
From: Duncan Munro
Topic: 548 Message: 549

AD6HF wrote:
> Hello,
> I've downloaded the transceiver software,I using a delta-44 sound card
> that works fine with power sdr winrad and rocky.
> The KGKSDR transceiver software receives fine on ssb but no sound on cw.
> Can you help me?

What version are you using? (It's in Help|About).

73,

Duncan
M0KGK

550. Re: no sound on cw

Yahoo group: kgksdr
Date: 2007-01-18 18:14:04 UTC
From: Dave
Topic: 548 Message: 550

> The KGKSDR transceiver software receives fine on ssb but no sound on
> cw.

That was the symptom with Build 45. Build 46 fixed that. Build 47 is
the current version.

Dave, WA3OFF

551. Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-18 18:22:12 UTC
From: Dave
Topic: 551 Message: 551

How about having a configurable calibration for the TX Power slider?
My v6.0 with the PA daughter card (same PA as the production v6.1)
produces about 1W with the slider all the way up.

Dave, WA3OFF

552. Re: [kgksdr] no sound on cw

Yahoo group: kgksdr
Date: 2007-01-18 18:47:35 UTC
From: Robert Brennan
Topic: 548 Message: 552

--- Duncan Munro <m0kgk@...> wrote:

> AD6HF wrote:
> > Hello,
> > I've downloaded the transceiver software,I using
> a delta-44 sound card
> > that works fine with power sdr winrad and rocky.
> > The KGKSDR transceiver software receives fine on
> ssb but no sound on cw.
> > Can you help me?
>
> What version are you using? (It's in Help|About).
>
> 73,
>
> Duncan
> M0KGK
>
> Hi Duncan,
I,m using version 1.1.0.45

Thanks
Bob

Cheap talk?
Check out Yahoo! Messenger's low PC-to-Phone call rates.
http://voice.yahoo.com

553. Re: [kgksdr] no sound on cw

Yahoo group: kgksdr
Date: 2007-01-18 18:54:20 UTC
From: Duncan Munro
Topic: 548 Message: 553

Robert Brennan wrote:
>> Hi Duncan,
> I,m using version 1.1.0.45

Hi Bob, this has an issue with no sound on CW - please download the latest (build 47) in which this issue is resolved.

73,

Duncan
M0KGK

554. Re: [kgksdr] Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-18 19:02:32 UTC
From: Duncan Munro
Topic: 551 Message: 554

Dave wrote:
> How about having a configurable calibration for the TX Power slider?
> My v6.0 with the PA daughter card (same PA as the production v6.1)
> produces about 1W with the slider all the way up.

Hi Dave,

I've just changed the code to support this and will come out with build
48 when it's released.

73,

Duncan
M0KGK

555. Re: Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-18 19:13:41 UTC
From: Dave
Topic: 551 Message: 555

Actually, the power values indicated by the Tx Power slider don't seem to match reality at all, even if scaled. Perhaps its calculation method needs to be adjusted. A change of a bit more than 3 times the indicated value produces roughly a doubling of the measured power output.

Also, it would be nice to be able to configure the I/Q level that is associated with the top of the scale. For me, anything above a currently indicated value of about 20.0 (about 2/3 scale) seems to be overdriving the Tx I/Q to the SR. (I have modified the SR input gain to be more like the production v6.1, perhaps even a bit more gain than that. I may reduce that gain a bit.)

Dave, WA3OFF

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> How about having a configurable calibration for the TX Power slider?
> My v6.0 with the PA daughter card (same PA as the production v6.1)
> produces about 1W with the slider all the way up.
>
> Dave, WA3OFF
>

556. TX Button

Yahoo group: kgksdr
Date: 2007-01-18 21:49:44 UTC
From: philip_g7jur
Topic: 556 Message: 556

Hi Duncan.

Many thanks for the latest version of KGKSDR. Which I have tested and works very well.
Also is it possible to add a TX button to the software, so you don't need a PTT switch wired to the comport.

Philip g7jur.

557. Re: Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-19 00:10:12 UTC
From: Dave
Topic: 551 Message: 557

> Actually, the power values indicated by the Tx Power slider don't
> seem to match reality at all, even if scaled.

Some more info. The output Tx I/Q voltage does change in proportion to the square root of the displayed power value, So the calculation seems to be right. What is odd is to me is that the transmitter output voltage into a 50 ohm load is not in proportion to that. Perhaps I need to adjust the PA bias or something.

Dave, WA3OFF

558. Re: [kgksdr] Re: Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-19 00:25:18 UTC
From: Duncan Munro
Topic: 551 Message: 558

Dave wrote:
>> Actually, the power values indicated by the Tx Power slider don't
>> seem to match reality at all, even if scaled.
>
> Some more info. The output Tx I/Q voltage does change in proportion to
> the square root of the displayed power value, So the calculation seems
> to be right. What is odd is to me is that the transmitter output
> voltage into a 50 ohm load is not in proportion to that. Perhaps I
> need to adjust the PA bias or something.

Hi Dave, no need to change the bias - the power out from the Softrock is not linear in relation to power in even with the correct bias. I did do some calibration checks but I can't find the spreadsheet with the results right now.

In essence, as you push the slider up, the power out gets lower than the software predicts.

The I/Q should be exactly right, it's just the transmitter that works out being a problem. This is not an issue specifically with Softrock, it something that affects all solid state and vacuum tube amplifiers.

The only real fix is to allow for calibration at various points, and then manage a calibration map system to record and process all this info. To be honest, this would require quite a bit of development effort to implement and I'm not sure it would add a proportionate amount of value.

On a related note, you did mention about the ease of overdriving the Softrock from the software. The way I worked this here was to overdrive the SR and then knock it back using the output sliders on the Delta 66 card until it was the true 100% power I wanted. This then gives me max output when the power slider on KGKSDR is at the top.

73,

Duncan
M0KGK

559. Re: Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-19 05:44:52 UTC
From: Dave
Topic: 551 Message: 559

> Hi Dave, no need to change the bias - the power out from the
> Softrock is not linear in relation to power in even with the
> correct bias.

I came to the same conclusion after poking around with the o'scope some more. The output of the 2N2222 shows a little bit of the same thing, but most of it seems to come from the final stage.

To reduce the drive, I did change input amp resistor values back to earlier values I had used. I had forgotten that I had configured it with 2 to 3 times more gain than even the production RXTX has (needed that to be able to use the Sound Blaster card). It now has the same gain (1) as the production SR RXTX and it reaches full output close to the top of the slider.

I agree, time is better spent elsewhere than on trying to make the predicted power output particularly accurate.

During testing, I did discover one bug while using build 47, though. Either a very short dit on the key or contact bounce (I'm not sure which) can cause the Tx to hang (similar to before - PTT active but no Tx I/Q or sidetone) until the key is depressed again. I discovered this by making very short taps on a straight key. I haven't seen it while keying normally.

Dave, WA3OFF

560. Re: TX Button

Yahoo group: kgksdr
Date: 2007-01-19 16:19:00 UTC
From: joe price
Topic: 556 Message: 560

Duncan,

I finally got around to trying the transmitt image calibration software. I used a spectrum analyzer for the adjustment and the program works great. It's a outstanding work that far out paces the other software available for Tony's transceiver.

Now for the wish list.

1 TX button (PTT box to click)

2 Since Tony's transceivers have a switchable xtals to allow for frequency change allowing wider coverage woulf it be possible to use a lead on the COM PORT to switch the frequency box so that the displayed (on screen frequency) follows a xtal switch?

73's Joe wa9cgz

561. Re: [kgksdr] Re: Tx Power slider

Yahoo group: kgksdr
Date: 2007-01-19 17:47:50 UTC
From: Duncan Munro
Topic: 551 Message: 561

Dave wrote:
> During testing, I did discover one bug while using build 47, though.
> Either a very short dit on the key or contact bounce (I'm not sure
> which) can cause the Tx to hang (similar to before - PTT active but
> no Tx I/Q or sidetone) until the key is depressed again. I
> discovered this by making very short taps on a straight key. I
> haven't seen it while keying normally.

Hi Dave, I've not seen this effect so I will do some investigation on it
this evening.

73,

Duncan
M0KGK

562. Re: [kgksdr] Re: TX Button

Yahoo group: kgksdr
Date: 2007-01-19 18:18:28 UTC
From: Duncan Munro
Topic: 556 Message: 562

joe price wrote:
> Duncan,
>
> I finally got around to trying the transmitt image calibration
> software. I used a spectrum analyzer for the adjustment and the
> program works great. It's a outstanding work that far out paces
> the other software available for Tony's transceiver.

Hi Joe,

This is very good news!

> Now for the wish list.
>
> 1 TX button (PTT box to click)

The software now has a MOX and PTT button which are either/or (i.e. press the MOX button down and the PTT button comes up). These can also be selected with F9 and F10.

I'll put the build out with this in the next day or two, it's a great idea - I've been putting weights on a morse key for the longer term TX tests :-)

> 2 Since Tony's transceivers have a switchable xtals to allow
> for frequency change allowing wider coverage woulf it be
> possible to use a lead on the COM PORT to switch the frequency
> box so that the displayed (on screen frequency) follows
> a xtal switch?

I'll have a look at this one and see what's involved. The COM port side is nice and easy, the problem will be how to link up with the list especially if the list has quite a number of entries.

I'm sure it's do-able though.

73,

Duncan
M0KGK

563. First QSO

Yahoo group: kgksdr
Date: 2007-01-21 12:30:41 UTC
From: jabauzit
Topic: 563 Message: 563

Great software Duncan.
Today I made my first QSO with the SoftRock and KGKSDR.
Curacao -> Martinique in SSB around 900km and report between 53 and 56.
Thanks Duncan

Jean-Claude PJ2BVU

564. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 12:42:20 UTC
From: qrper723
Topic: 563 Message: 564

Hi, Jean.

Congrats for your 1st SSB QSO by KGKSDR!
Did you connect the Linear Amplifier to V6-RxTx?
I'm surprised to hear you make a QSO so long distance.

I've just tested SSB TX and I confirm only by myself. hi.
Anymore Power will be needed to make a QSO on 40m SSB.

73,ja9mat hidehiko.

> Today I made my first QSO with the SoftRock and KGKSDR.
> Curacao -> Martinique in SSB around 900km and report between 53 and 56.

565. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 13:20:49 UTC
From: jabauzit
Topic: 563 Message: 565

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
>
> Hi, Jean.
>
> Congrats for your 1st SSB QSO by KGKSDR!

Thanks Hidesan.

> Did you connect the Linear Amplifier to V6-RxTx?
> I'm surprised to hear you make a QSO so long distance.

No, plain vanilla except the 2N3866: I used a Motorola one from my junk box -> 750 mW ouput. Between Curaco and Martinique only water, I guess it helps. But I was surprised, especially for the good report.

>
> I've just tested SSB TX and I confirm only by myself. hi.
> Anymore Power will be needed to make a QSO on 40m SSB.
>

Now I have to make one in CW but I did not find any station close enough. I tried a lot last night but nothing. This morning the guys from Martinique were having their Sunday QSO and they were coming here very strong, so I gave it a shot. Glad I did.

73 de Jean-Claude, PJ2BVU

566. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 13:28:38 UTC
From: qrper723
Topic: 563 Message: 566

Ok dear Jean.

Very nice job!
My 2N3866 is not from Motorola...Only 200mW output. hi.

Anyway I will also try to make a QSO with RxTx + KGKSDR.
Thanks for encourage me!

73,ja9mat hidehiko.

> No, plain vanilla except the 2N3866: I used a Motorola one from my
> junk box -> 750 mW ouput. Between Curaco and Martinique only water, I
> guess it helps. But I was surprised, especially for the good report.

567. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 15:31:28 UTC
From: Duncan Munro
Topic: 563 Message: 567

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> Great software Duncan.
> Today I made my first QSO with the SoftRock and KGKSDR.
> Curacao -> Martinique in SSB around 900km and report between 53 and 56.

That's great news and excellent distance too. Did you have the
compressor on, or did you just run without it?

73,

Duncan
M0KGK

568. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 17:40:15 UTC
From: jabauzit
Topic: 563 Message: 568

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
>
> That's great news and excellent distance too. Did you have the
> compressor on, or did you just run without it?
>

Duncan, I had the compressor and the gate enabled. I was not able to make a real test with them as it was their local Sunday "net" and I caught them near the end when everyone wanted to QRT. The only thing I heard about my signal:
When I called first I did not make it as they were not leaving any break but FM5WD heard something and say that some bassy voice was calling which I found strange as I was tuned a little high - there was a contest and a lot of signals, to get rid of a bothering signal I tuned them not exactly on frequency but with a little high pitched voice, just slightly. I will make more tests with a local OM, but he won't be back before Wednesday. Here almost no active ham :-(

73 de Jean-Claude PJ2BVU

569. Re: [kgksdr] Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 17:50:55 UTC
From: Marco IK1ODO
Topic: 563 Message: 569
Attachments: 1 described; binary payloads are missing from this source WARC

Jean-Claude,

if want to exchange QTH this is the current situation of 40m in
Europe... it was much worse two hours ago, now it's closing (6:48pm here)

73 - Marco IK1OD

[]

570. Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 18:17:18 UTC
From: jabauzit
Topic: 563 Message: 570

--- In kgksdr@yahoogroups.com, Marco IK1ODO <ik1odo@...> wrote:
>
> Jean-Claude,
>
> if want to exchange QTH this is the current situation of 40m in
> Europe... it was much worse two hours ago, now it's closing (6:48pm
here)
>
Hi Marco,

Here it was also terrible last night with the UK RTTY contest and the
HA CW contest. The propagation was also good, UA, DL, I very strong in
SSB.
At one point I quit my SDR programs and CW/RTTY was still coming from
the computer, I do not say the speakers as it was weak and seeming to
come from nowhere in particular. Very strange.

Jean-Claude PJ2BVU

571. Re: [kgksdr] Re: First QSO

Yahoo group: kgksdr
Date: 2007-01-21 17:50:55 UTC
From: Marco IK1ODO
Topic: 563 Message: 571
Attachments: 1 described; binary payloads are missing from this source WARC

Jean-Claude,

if want to exchange QTH this is the current situation of 40m in Europe... it was much worse two hours ago, now it's closing (6:48pm here)

73 - Marco IK1OD

[]

572. Of sliders and other musings

Yahoo group: kgksdr
Date: 2007-01-22 06:22:01 UTC
From: jabauzit
Topic: 572 Message: 572

Hi Duncan,

I have a few questions regarding the KGKSDR sliders.
As I understand it the "hardware" sliders in the mixer - be it the Windows Mixer or the Mixer provided by the sound card manufacturer - set the volume seen by KGKSDR in the case of an input or the maximum level than can be output by KGKSDR in the case of an output. The sliders in KGKSDR are purely software - for example moving them do not move the "hardware" sliders - and just scale the input or output. Am I correct about it?
Regarding the RF slider: what is its role? I do not see what is affected by moving it up and down.

Regarding the Custom Filter Sliders: I think there is one too many - the bandwidth slider: the bandwidth should be displayed but not associated with a slider.
Even the Centre Frequency slider is a mystery to me, plus you move one and all the others move. I have been unable to use it effectively. May be I am missing something but it seems to me that the Low/High Cutoff sliders should be enough for every situation or the Bandwidth slider and a Shift Slider:
For example a SSB 2.4kHz filter could be defined as a 300/2700Hz Low/High Cutoff or a 2.4kHz bandwidth and a Shift of 300Hz.

Regarding the display of the bandwidth of the filter in the Spectrum Display:
It does not keep a constant graphical width when tuning up/down either by clicking the mouse pointer or using the wheel and can be annoying when trying to center a CW signal within the passband.

Regarding CWL and CWU, shouldn't the CW signal stay in the passband and the "BFO" switched to the lower/upper side which is what happens on an analog rig.
This brings me to wonder if there is a real need for CWL/CWU when working with DSP. PowerSDR has CWL/CWU, Rocky and Winrad have only CW. As the DSP filters are "Brick wall" filters and symmetrical I doubt that CWL and CWU would give different results.

ANR and ANL DSP functions: I avoid using them as the sound tends to become "broken". Note: I use a Santa Cruz and ASIO4All and it could be particular to my setup.

These are only personal remarks and I wish that others will give their input to make KGKSDR better than it is. But so far I consider it as very good, easy to use and setup. It works - on receive and transmit, in CW and SSB - and allowed me to make my first QSO almost as soon as

my antenna was finished. It took a little while to do it but only because the RXTX delivers flea power. I could do it only with KGKSDR as PowerSDR does not support multiple sound cards and I do not have - yet - a Delta 44/66.

Thanks for the good work Duncan.

Jean-Claude, PJ2BVU

573. Re: [kgksdr] Of sliders and other musings

Yahoo group: kgksdr
Date: 2007-01-22 09:33:07 UTC
From: Duncan Munro
Topic: 572 Message: 573

jabauzit wrote:
> Hi Duncan,
>
> I have a few questions regarding the KGKSDR sliders.
> As I understand it the "hardware" sliders in the mixer - be it the
> Windows Mixer or the Mixer provided by the sound card manufacturer -
> set the volume seen by KGKSDR in the case of an input or the maximum
> level than can be output by KGKSDR in the case of an output. The
> sliders in KGKSDR are purely software - for example moving them do not
> move the "hardware" sliders - and just scale the input or output. Am I
> correct about it?

That's right, the KGKSDR sliders will scale the input/output and you may need to tweak the control panel sliders too.

> Regarding the RF slider: what is its role? I do not see what is
> affected by moving it up and down.

Effectively nothing if AGC is on. There was a manual AGC but it's of very limited use.

> Regarding the Custom Filter Sliders: I think there is one too many -
> the bandwidth slider: the bandwidth should be displayed but not
> associated with a slider.

That would mean you would have to tweak both the low and high sliders to widen the bandwidth if listening to a CW signal.

> Even the Centre Frequency slider is a mystery to me, plus you move one
> and all the others move. I have been unable to use it effectively. May
> be I am missing something but it seems to me that the Low/High Cutoff
> sliders should be enough for every situation or the Bandwidth slider
> and a Shift Slider:
> For example a SSB 2.4kHz filter could be defined as a 300/2700Hz
> Low/High Cutoff or a 2.4kHz bandwidth and a Shift of 300Hz.

For SSB, low and high are the two you would use. For CW or data, the centre/bandwidth are the two that are of most use. Maybe you are trying to use centre/bandwidth for SSB which is not ideal.

> Regarding the display of the bandwidth of the filter in the Spectrum
> Display:
> It does not keep a constant graphical width when tuning up/down either
> by clicking the mouse pointer or using the wheel and can be annoying
> when trying to center a CW signal within the passband.

This is due to the 'bin' nature of the filtering and can become visible on very high zoom levels. The filter cannot be moved in 1Hz or other small steps, I think it's about 20-45Hz granularity depending on sample rate and other issues.

It could probably be improved, this is maybe something to look at when the general subject of filtering gets reviewed again.

> Regarding CWL and CWU, shouldn't the CW signal stay in the passband
> and the "BFO" switched to the lower/upper side which is what happens
> on an analog rig.

Yes, this needs to be fixed.

> This brings me to wonder if there is a real need for CWL/CWU when
> working with DSP. PowerSDR has CWL/CWU, Rocky and Winrad have only CW.
> As the DSP filters are "Brick wall" filters and symmetrical I doubt
> that CWL and CWU would give different results.

There may be some use of the variable L/U in contests for example, it does no harm anyway to leave both in as users can just pick one if they want.

> ANR and ANL DSP functions: I avoid using them as the sound tends to
> become "broken". Note: I use a Santa Cruz and ASIO4All and it could be
> particular to my setup.

If the Santa Cruz card is only 16 bit then results from DSP functions will not be good.

> These are only personal remarks and I wish that others will give their
> input to make KGKSDR better than it is. But so far I consider it as
> very good, easy to use and setup. It works - on receive and transmit,
> in CW and SSB - and allowed me to make my first QSO almost as soon as
> my antenna was finished. It took a little while to do it but only
> because the RXTX delivers flea power. I could do it only with KGKSDR
> as PowerSDR does not support multiple sound cards and I do not have -
> yet - a Delta 44/66.
>
> Thanks for the good work Duncan.

Thanks for the feedback!

73,

Duncan
M0KGK

574. Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-22 16:30:25 UTC
From: n3hkn
Topic: 574 Message: 574

One of the nice features for me is Rocky's individual I/Q level displays. For testing/troubleshooting I use this feature but with great care. On my system if, in Rocky, I slide the mixer Line In to zero/nil my PC locks up quite tight. Thus I would rather have it on my "everyday" SDR program - KGKSDR.

Dick N3HKN

575. Build 48, was Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-22 17:37:01 UTC
From: Duncan Munro
Topic: 574 Message: 575

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> One of the nice features for me is Rocky's individual I/Q level
> displays. For testing/troubleshooting I use this feature but with
> great care. On my system if, in Rocky, I slide the mixer Line In to
> zero/nil my PC locks up quite tight. Thus I would rather have it on
> my "everyday" SDR program - KGKSDR.

Hi Dick, good idea. I often see on the Softrock40 group problems where people cannot get an image rejection fixed and it's normally because one of the channels is not OK so this simple bit of diagnostics will help.

There is a bit more space down on the status bar now the input and output buffer gauges have been removed, so I have put a left input monitor and right input monitor on there.

As always, downloads are from:

http://www.m0kgk.co.uk/sdr/download.php

It effectively shows each input channel from -100dB to 0dB where 0dB refers to the input card clipping. If you get an input drop out, it's clearly visible.

The full change log for build 48 is:

==========

1.1.0.48 22/01/2007

ADDED: The power output of the TX can be added to the hardware options.

ADDED: MOX/PTT buttons. F9/F10 do MOX/PTT respectively.

ADDED: Left/Right input displays show input, 100% = saturated and 0% represents -100dB.

==========

73,

Duncan
M0KGK

576. Re: Of sliders and other musings

Yahoo group: kgksdr
Date: 2007-01-22 19:37:24 UTC
From: jabauzit
Topic: 572 Message: 576

Thanks for all the answers Duncan.
Regarding the Custom Filter Sliders I was thinking in term of SSB only. In CW the predefined ones are sufficient and I did not think at all about the digital modes.
For the problems with the ANR and ANL DSP functions, I mentionned the Santa Cruz as I had the idea it could have been the culprit: no one seems to complain about these functions. The Santa Cruz is 16 bit (19 bits in the hardware). These functions work properly with PowerSDR and Winrad, I suppose it is due to the DSP library in use. Not much you can do about it.
In any case I plan to move to a Delta44/66 as it is a little difficult to deal with 2 sound cards under Windows.

Jean-Claude PJ2BVU

577. Re: Build 48, was Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-22 21:48:37 UTC
From: Dave
Topic: 574 Message: 577

> 1.1.0.48 22/01/2007
>
> ADDED: The power output of the TX can be added to the hardware
> options.

With this change and the RF bypass cap addition to the Rx switch that was just announced on the softwork40 group, the output power tracks the slider estimate nicely.

> ADDED: MOX/PTT buttons. F9/F10 do MOX/PTT respectively.

A Tune button might be handy also. (My key sometimes consists of a couple of bare wires.) It would also make things easier in SSB mode in that it would be unnecessary to explicitly switch to CW mode for checking SWR.

I agree that at some point the DSP filtering functions need to be revamped. I wish I knew enough about it to make specific suggestions. Even with the Delta 44 sound card, the other apps out there do seem to produce cleaner audio. Still, I stick with KGKSDR because, for me, it's the most useable with the SR RXTX. (I did 1306 miles CW between Maryland and Texas with it last night, in fact; not as impressive as Jean-Claude's 900km SSB QSO, but a best for me.)

Dave, WA3OFF

578. Re: Build 48, was Nice To Have -- Individual I/Q level Displays - Out of topic

Yahoo group: kgksdr
Date: 2007-01-22 23:11:44 UTC
From: jabauzit
Topic: 574 Message: 578

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
>
> With this change and the RF bypass cap addition to the Rx switch that
> was just announced on the softwork40 group, the output power tracks
> the slider estimate nicely.

Which model do you have? FET PA or 2N3866 PA?

>
> A Tune button might be handy also. (My key sometimes consists of a
> couple of bare wires.) It would also make things easier in SSB mode
> in that it would be unnecessary to explicitly switch to CW mode for
> checking SWR.

I would be nice with a settable level to tune at reduced power for
example.

>
> I agree that at some point the DSP filtering functions need to be
> revamped. I wish I knew enough about it to make specific
> suggestions. Even with the Delta 44 sound card, the other apps out
> there do seem to produce cleaner audio. Still, I stick with KGKSDR
> because, for me, it's the most useable with the SR RXTX. (I did 1306
> miles CW between Maryland and Texas with it last night, in fact; not
> as impressive as Jean-Claude's 900km SSB QSO, but a best for me.)
>
1306 miles is excellent, especially over ground. Between Curacao and
Martinique only salt water.

Jean-Claude PJ2BVU

579. Re: Build 48, was Nice To Have -- Individual I/Q level Displays - Out of topic

Yahoo group: kgksdr
Date: 2007-01-23 01:55:00 UTC
From: Dave
Topic: 574 Message: 579

> > With this change and the RF bypass cap addition to the Rx switch
> > that was just announced on the softwork40 group, the output power
> > tracks the slider estimate nicely.
>
> Which model do you have? FET PA or 2N3866 PA?

I have the FET PA daughter board. The 0.1uF cap from Q6 gate to ground needs to be applied to all SR RXTX versions.

> 1306 miles is excellent, especially over ground.

My wire antenna also seems to be optimized for the hop from MD to TX. It just worked out that way. The other station, running 5W, was using 1/4-wave phased verticals and had a solid signal here. I had hopes of working a California station I heard briefly, but his signal on the spectrum display peaked at only about 5dB above the noise except for one time when I heard him give his state as "CA". I never would have even found that station without KGKSDR's spectrum display.

I'm finding that the spectrum display is both a blessing and a curse in a QRP contest. I can easily find stations to work, but since I can see other stations popping up while I'm waiting for another QSO to finish, it's easy to get impatient and jump to another signal, only to miss the opportunity to call the first station. I guess it will take some practice to make it efficient. With the flexibility of SDR, it might be fun to someday have memories for self-spotted stations, somewhat like the way packet-spotting is integrated into contesting software that can control the rig.

Dave, WA3OFF

580. RIT Glitch

Yahoo group: kgksdr
Date: 2007-01-23 03:06:02 UTC
From: jabauzit
Topic: 580 Message: 580

I forgot to mention: when the RIT is engaged the frequency (display) does not revert to the original one during transmit. I did not check on which frequency the RXTX transmit in such a case.

Jean-Claude, PJ2BVU

581. Re: Build 48, was Nice To Have -- Individual I/Q level Displays - Out of topic

Yahoo group: kgksdr
Date: 2007-01-23 03:03:36 UTC
From: jabauzit
Topic: 574 Message: 581

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
>
> I have the FET PA daughter board. The 0.1uF cap from Q6 gate to
> ground needs to be applied to all SR RXTX versions.
>

I have the 2N3866 and was curious of the result. The only feedback is
for the FET. I will work on it this weekend.

...

> With the flexibility
> of SDR, it might be fun to someday have memories for self-spotted
> stations, somewhat like the way packet-spotting is integrated into
> contesting software that can control the rig.
>

If Duncan implements VFO A/B you could leave the frequency of interest
on one VFO, make contacts with the other and when the QSO is finished
just switch to the first VFO. PowerSDR also as dual receive capability
- not yet for the SoftRock - that could also a way to do it. VFO A/B
should be fairly easy to implement.
Your idea is also very interesting, like a bandmap window of contest
software but on the spectrum display. The DX Cluster stuff could also
be integrated into KGKSDR and the call signs would popup on the
spectrum display. That is a lot of programing, look for how long
PowerSDR has been around to be where it is now. Duncan does it on his
free time and as everyone of us know there is never enough of it.

Jean-Claude PJ2BVU

582. Re: [kgksdr] RIT Glitch

Yahoo group: kgksdr
Date: 2007-01-23 19:07:36 UTC
From: Duncan Munro
Topic: 580 Message: 582

jabauzit wrote:
> I forgot to mention: when the RIT is engaged the frequency (display)
> does not revert to the original one during transmit. I did not check
> on which frequency the RXTX transmit in such a case.

Hi Jean-Claude,

The TX is on the right frequency, it's just that the RIT display could be clearer under these circumstances. I've changed the software so that the RIT marker grays out during TX.

73,

Duncan
M0KGK

583. Re: [kgksdr] Re: Build 48, was Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-23 21:06:32 UTC
From: Duncan Munro
Topic: 574 Message: 583

Dave wrote:

> A Tune button might be handy also. (My key sometimes consists of a
> couple of bare wires.) It would also make things easier in SSB mode
> in that it would be unnecessary to explicitly switch to CW mode for
> checking SWR.

Hi Dave, I've put one on there now but won't get a chance to test until the weekend. It now reads [PTT] [MOX] [Tune] with F11 being assigned to tuning up, so it's really easy. I'll probably put an option in there for tune power, i.e. 50% or something in the options.

> I agree that at some point the DSP filtering functions need to be
> revamped. I wish I knew enough about it to make specific
> suggestions. Even with the Delta 44 sound card, the other apps out
> there do seem to produce cleaner audio. Still, I stick with KGKSDR
> because, for me, it's the most useable with the SR RXTX.

The audio (to my ears) seems to have got worse since the ASIO thing was put on, I'll have a look at this.

>(I did 1306
> miles CW between Maryland and Texas with it last night, in fact; not
> as impressive as Jean-Claude's 900km SSB QSO, but a best for me.)

That's a pretty impressive feat!

73,

Duncan
M0KGK

584. Re: [kgksdr] Re: Build 48, was Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-23 21:29:35 UTC
From: Dave
Topic: 574 Message: 584

Hi- Does KGKSDR work in a WIN98SE environment? Kept getting errors but not sure if it was a hardware configuration issue or OS compatibility.

Dave
====

----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Tuesday, January 23, 2007 2:06 PM
Subject: Re: [kgksdr] Re: Build 48, was Nice To Have -- Individual I/Q level Displays

Dave wrote:

> A Tune button might be handy also. (My key sometimes consists of a
> couple of bare wires.) It would also make things easier in SSB mode
> in that it would be unnecessary to explicitly switch to CW mode for
> checking SWR.

Hi Dave, I've put one on there now but won't get a chance to test until the weekend. It now reads [PTT] [MOX] [Tune] with F11 being assigned to tuning up, so it's really easy. I'll probably put an option in there for tune power, i.e. 50% or something in the options.

> I agree that at some point the DSP filtering functions need to be
> revamped. I wish I knew enough about it to make specific
> suggestions. Even with the Delta 44 sound card, the other apps out
> there do seem to produce cleaner audio. Still, I stick with KGKSDR
> because, for me, it's the most useable with the SR RXTX.

The audio (to my ears) seems to have got worse since the ASIO thing was put on, I'll have a look at this.

>(I did 1306
> miles CW between Maryland and Texas with it last night, in fact; not
> as impressive as Jean-Claude's 900km SSB QSO, but a best for me.)

That's a pretty impressive feat!

73,

Duncan
M0KGK

585. KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-23 21:51:55 UTC
From: verduynj
Topic: 585 Message: 585

Hi All

Build 48 is working fine on CW.
It also works ok in SSB mode with, however having just one soundcard installed the program does not automatically switch over in Recording Mode between " Microphone and Line In inputs. For Transmit I have to enable MOX button and Microphone and going back to receive I need to enable "Line In" control and PTT button. Have I missed something in the configuration settings somewhere? Had same issue in build 47, but decided to wait for build 48 before asking advice.

best 72s

Jan G0BBL

586. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-23 23:38:18 UTC
From: jabauzit
Topic: 585 Message: 586

--- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@...> wrote:
>
> Hi All
>
> Build 48 is working fine on CW.
> It also works ok in SSB mode with, however having just one soundcard
> installed the program does not automatically switch over in Recording
> Mode between " Microphone and Line In inputs. For Transmit I have to
> enable MOX button and Microphone and going back to receive I need to
> enable "Line In" control and PTT button. Have I missed something in the
> configuration settings somewhere? Had same issue in build 47, but
> decided to wait for build 48 before asking advice.
>
Hi Jan,

When KGKSDR with SSB transmit came out I had the same problem and did not get a clear answer. I am using a PCI sound board but also have a motherboard sound chip so I decided to use both. KGKSDR supports several soundboards contrary to PowerSDR which supports only one. This allowed me to make my first SSB QSO with KGKSDR.
It should be possible to do the switch by software but the Windows sound system is not very friendly. Soundboards can use the Windows mixer but others come with their own mixer, I am not sure if it can be a problem but it could.
The only thing I don't like in my case is the fact that the PCI soundboard has its own mixer which shows up in the task bar but I have been unable to have the windows mixer used by the motherboard chip to show up in the task bar and have to resort to magic to access it.
One question: having only one sound card how do you switch lineout between RX and TX?

Jean-Claude PJ2BVU

587. Re: [kgksdr] Re: Build 48, was Nice To Have -- Individual I/Q level Displays

Yahoo group: kgksdr
Date: 2007-01-24 00:33:10 UTC
From: Duncan Munro
Topic: 574 Message: 587

Dave wrote:
> Hi- Does KGKSDR work in a WIN98SE environment? Kept getting errors but
> not sure if it was a hardware configuration issue or OS compatibility.

Hi Dave, what errors are you getting?

The short answer is it *should* work, but I know of some elements which
may not work perfectly (e.g. CPU meter).

73,

Duncan
M0KGK

588. Re: [kgksdr] KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-24 00:37:37 UTC
From: Duncan Munro
Topic: 585 Message: 588

verduynj wrote:
> Hi All
>
> Build 48 is working fine on CW.
> It also works ok in SSB mode with, however having just one soundcard
> installed the program does not automatically switch over in Recording
> Mode between " Microphone and Line In inputs. For Transmit I have to
> enable MOX button and Microphone and going back to receive I need to
> enable "Line In" control and PTT button. Have I missed something in the
> configuration settings somewhere? Had same issue in build 47, but
> decided to wait for build 48 before asking advice.

Hi Jan, with just one soundcard life is going to be "interesting" to say the least :-(

There is the issue of line in and mic in for a start, not so much of a problem if you are using CW. Sharing two outputs, is a real non-starter under the current implementation. The TX output may likely be overwritten by the RX output.

Could you not get another card and tie it in using ASIO4ALL?

73,

Duncan
M0KGK

589. Re: [kgksdr] Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-24 00:46:18 UTC
From: Duncan Munro
Topic: 585 Message: 589

jabauzit wrote:
> --- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@...> wrote:
>> Hi All
>>
>> Build 48 is working fine on CW.
>> It also works ok in SSB mode with, however having just one soundcard
>> installed the program does not automatically switch over in Recording
>> Mode between " Microphone and Line In inputs. For Transmit I have to
>> enable MOX button and Microphone and going back to receive I need to
>> enable "Line In" control and PTT button. Have I missed something in the
>> configuration settings somewhere? Had same issue in build 47, but
>> decided to wait for build 48 before asking advice.
>>
> Hi Jan,
>
> When KGKSDR with SSB transmit came out I had the same problem and did
> not get a clear answer. I am using a PCI sound board but also have a
> motherboard sound chip so I decided to use both. KGKSDR supports
> several soundboards contrary to PowerSDR which supports only one. This
> allowed me to make my first SSB QSO with KGKSDR.
> It should be possible to do the switch by software but the Windows
> sound system is not very friendly. Soundboards can use the Windows
> mixer but others come with their own mixer, I am not sure if it can be
> a problem but it could.
> The only thing I don't like in my case is the fact that the PCI
> soundboard has its own mixer which shows up in the task bar but I have
> been unable to have the windows mixer used by the motherboard chip to
> show up in the task bar and have to resort to magic to access it.
> One question: having only one sound card how do you switch lineout
> between RX and TX?

Hi Jean-Claude, each soundboard should have it's own mixer *BUT* there is only one mixer in the system. You have to select which soundcard you want to administer from the mixer software.

If you double-click the little icon in the taskbar, then Options menu followed by Properties, there will be a dropdown called Mixer Device. Pick the soundcard you wish to administer and it should all be OK. The motherboard chip should appear on the list.

I've put a screen dump of what should appear in the Files area of this group under Screen Shots. It's called mixer.gif.

73,

Duncan
M0KGK

590. Program Error?

Yahoo group: kgksdr
Date: 2007-01-24 01:37:56 UTC
From: D R Mynatt
Topic: 590 Message: 590
Attachments: 1 described; binary payloads are missing from this source WARC

Using 1.0.1.29, the first error is: 'Failed to set data for 'ScreenLeft'', and then it gives a series of 'Failed to set data for...' messages. I press Enter and then eventually it brings up the main screen.
Dave

591. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-24 03:24:42 UTC
From: jabauzit
Topic: 585 Message: 591

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Hi Jean-Claude, each soundboard should have it's own mixer *BUT* there
> is only one mixer in the system.

That explain why I have only one in the task bar.

> You have to select which soundcard you
> want to administer from the mixer software.
>

Only if the mixer software is the standard Windows mixer and it where
my problem lays:
The Turtle Beach software is picky: to install the Santa Cruz board I
must disable any other sound board and install the software. When done
the Mixer provided by Turtle Beach appears in the taskbar and this
mixer is only for the Santa Cruz and has no option to select another
soundboard. When I re enable the motherboard sound chip I can install
its driver. Everything works fine except that the mixer is nowhere to
be seen.
Not exactly: by looking hard I can get to it.
Start -> Control Panel -> Sound and Audio Devices -> Audio -> Sound
Playback Volume (or Sound Recording Volume).
Finally I can do:

> ..., then Options menu
> followed by Properties, there will be a dropdown called Mixer Device.
> Pick the soundcard you wish to administer and it should all be OK. The
> motherboard chip should appear on the list.
>

That is what I have been doing all along. Now it would be a lot more
convenient to have the Windows Mixer in the Task Bar as I could manage
the 2 sound boards and do not really need all the featutes of the
Santa Cruz Mixer. How do I do that?

Jean-Claude PJ2BVU

592. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-24 03:37:36 UTC
From: jabauzit
Topic: 585 Message: 592

When I says:
"Everything works fine except that the mixer is nowhere to be seen."
I still have the Santa Cruz Mixer in the task bar, I also have the
Realtek Control Panel called "Sound Effects" to adjust the equalizer
and various effects but not the volume.

Ooops!

I just right clicked on the Sound Effect Icon and I get a popup where
I can select various Audio Accessories, one of them being "Volume
Control" which brings up the Windows Mixer.

No need to dig deep any longer.

Jean-Claude PJ2BVU

Note: The Windows Sound System is really not the best thing in the world.

593. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-24 20:36:47 UTC
From: verduynj
Topic: 585 Message: 593

Hi Duncan,

The RXTX v6.1 QRP transceiver is designed to work with a single soundcard, which has a microphone and Line-in as inputs and with a a single Line-out as output. Examples are AC97, Dell Sigmatel HD and also the Soundblaster USB MP+3 which many laptop owners are using as Line-In inputs are often missing.
From experience I know that quite a few of us are struggling getting multiple soundcards to work hence I am advocate of the KISS principle when possible.

Interfacing to a single soundcard is as follows: (I plan to place a simple dwg on this reflector, same as i did in Softrock File area)

On receive:
RXTX RX_I_Q output is connected to LINE-IN and RXTX TX_I_Q out is connected to LINE-Out.
A pair of Headphones (or a powered PC speaker) is connected to the RXTX v6.1 phone output.
On Windows Mixer, Record Line_in adjusts the input signal to the soundcard whilst Windows Mixer Play Control - Volume and KGK AF Gain control the AF level of the phones.

On transmit:
Microphone is connected to the Microphone socket. all other connections remain the same.
Press "MOX" to transmit and on Windows Mixer, Recording Microphone control is enabled instead of "Line_in" and Line_Output delivers SSB TX_I_Q signals to RXTX allowing normal SSB transmission.
AF Output to Headphones is disabled.

How it functions on using PowerS**:
When pressing MOX button on SW the "Micrphone" is automatically enabled in TX mode.
When pressing MOX button again to go back to Receive, the Line-In is automatically selected.
Is it possible to do the same in KGK? or is something in the mixer/soundcard implementation prevents this being done in your program?

Best 73s

Jan G0BBL

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> verduynj wrote:

> > Hi All
> >
> > Build 48 is working fine on CW.
> > It also works ok in SSB mode with, however having just one
soundcard
> > installed the program does not automatically switch over in
Recording
> > Mode between " Microphone and Line In inputs. For Transmit I have
to
> > enable MOX button and Microphone and going back to receive I need
to
> > enable "Line In" control and PTT button. Have I missed something
in the
> > configuration settings somewhere? Had same issue in build 47,
but
> > decided to wait for build 48 before asking advice.
>
> Hi Jan, with just one soundcard life is going to be "interesting"
to say
> the least :-(
>
> There is the issue of line in and mic in for a start, not so much
of a
> problem if you are using CW. Sharing two outputs, is a real non-
starter
> under the current implementation. The TX output may likely be
> overwritten by the RX output.
>
> Could you not get another card and tie it in using ASIO4ALL?
>
> 73,
>
> Duncan
> M0KGK
>

594. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-25 16:40:05 UTC
From: Ray Benton
Topic: 585 Message: 594

--- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@...> wrote:

>Hi Jan,
Thank you very much for the desciption you gave on how to connect
the RXTX. I have not recieved my 40/30M RXTX yet but am planing what
cabling I will need.
I am confused about on statement in your instructions:

A pair of Headphones (or a powered PC speaker) is connected to the
> RXTX v6.1 phone output.

In looking at the RXTX paper work I cann't find a "RXTX v6.1 phone
output."
Please help me with this.
Also it would be helpful if you could write about how you connect
up for CW and the settings in KGKSDR.

The interfacing of the RXTX seems to be a puzzlement to me any
help would be appreciated .. Thanks Ray W7RJC

> Hi Duncan,
>
> The RXTX v6.1 QRP transceiver is designed to work with a single
> soundcard, which has a microphone and Line-in as inputs and with a
a
> single Line-out as output. Examples are AC97, Dell Sigmatel HD and
> also the Soundblaster USB MP+3 which many laptop owners are using
as
> Line-In inputs are often missing.
> From experience I know that quite a few of us are struggling
getting
> multiple soundcards to work hence I am advocate of the KISS
> principle when possible.
>
> Interfacing to a single soundcard is as follows: (I plan to place
a
> simple dwg on this reflector, same as i did in Softrock File area)
>
> On receive:
> RXTX RX_I_Q output is connected to LINE-IN and RXTX TX_I_Q out is
> connected to LINE-Out.
> A pair of Headphones (or a powered PC speaker) is connected to the
> RXTX v6.1 phone output.
> On Windows Mixer, Record Line_in adjusts the input signal to the
> soundcard whilst Windows Mixer Play Control - Volume and KGK AF
Gain

> control the AF level of the phones.
>
> On transmit:
> Microphone is connected to the Microphone socket. all other
> connections remain the same.
> Press "MOX" to transmit and on Windows Mixer, Recording
Microphone
> control is enabled instead of "Line_in" and Line_Output delivers
SSB
> TX_I_Q signals to RXTX allowing normal SSB transmission.
> AF Output to Headphones is disabled.
>
> How it functions on using PowerS**:
> When pressing MOX button on SW the "Micrphone" is automatically
> enabled in TX mode.
> When pressing MOX button again to go back to Receive, the Line-In
is
> automatically selected.
> Is it possible to do the same in KGK? or is something in the
> mixer/soundcard implementation prevents this being done in your
> program?
>
>
> Best 73s
>
> Jan G0BBL
>
>
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > verduynj wrote:
> > > Hi All
> > >
> > > Build 48 is working fine on CW.
> > > It also works ok in SSB mode with, however having just one
> soundcard
> > > installed the program does not automatically switch over in
> Recording
> > > Mode between " Microphone and Line In inputs. For Transmit I
have
> to
> > > enable MOX button and Microphone and going back to receive I
need
> to
> > > enable "Line In" control and PTT button. Have I missed
something
> in the
> > > configuration settings somewhere? Had same issue in build 47,

> but
> > > decided to wait for build 48 before asking advice.
> >
> > Hi Jan, with just one soundcard life is going to
be "interesting"
> to say
> > the least :-(
> >
> > There is the issue of line in and mic in for a start, not so
much
> of a
> > problem if you are using CW. Sharing two outputs, is a real non-
> starter
> > under the current implementation. The TX output may likely be
> > overwritten by the RX output.
> >
> > Could you not get another card and tie it in using ASIO4ALL?
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
>

595. Question re. benchmark and soundcard utility programs

Yahoo group: kgksdr
Date: 2007-01-25 17:24:49 UTC
From: huthutugh
Topic: 595 Message: 595

Both tools report my recently acquired Delta 66 has 8, 16 and 32 bit input support, but not 24 bit, through 96k sampling. It even says 192k sampling is supported but only at 8 and 16 bits. Is this a program bug or a defective sound card? The KGKSDR software does not complain.

With no input, the KGKSDR and benchmark software also shows two spurs near the upper edge of the benchmark response or near the lower and upper panadapter display at around -120dB, almost independent of the sample rate. These are the only spurs except for AC mains related ones. Is this normal for this sound card?
Gary

596. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-25 18:11:12 UTC
From: Duncan Munro
Topic: 585 Message: 596

--- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@...> wrote:
> How it functions on using PowerS**:
> When pressing MOX button on SW the "Micrphone" is automatically
> enabled in TX mode.
> When pressing MOX button again to go back to Receive, the Line-In is
> automatically selected.
> Is it possible to do the same in KGK? or is something in the
> mixer/soundcard implementation prevents this being done in your
> program?

Hi Jan,

KGKSDR does not currently access the mixer or set the inputs, and it's
not something I've tried.

I'll do some checking up and let you know.

73,

Duncan
M0KGK

597. Re: [kgksdr] Program Error?

Yahoo group: kgksdr
Date: 2007-01-26 01:04:44 UTC
From: Duncan Munro
Topic: 590 Message: 597

D R Mynatt wrote:
> Using 1.0.1.29, the first error is: 'Failed to set data for
> 'ScreenLeft'', and then it gives a series of 'Failed to set data for...'
> messages. I press Enter and then eventually it brings up the main screen.

Hi Dave,

I don't have Win98 (can't find it here right now) but I do have Windows Me which was the next one up the line. It gives exactly the errors you mention and it sounds like it's happening when KGKSDR tries to write back to the registry.

This shouldn't be an issue, I also wrote disk2disk which can write back to the registry on Win95 upwards with no problems, so some investigation is required to find out what's wrong.

73,

Duncan
M0KGK

598. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-25 21:23:33 UTC
From: Dave
Topic: 585 Message: 598

> In looking at the RXTX paper work I cann't find a "RXTX v6.1 phone
> output."

Page 1 of of 2 of the RXTX v6.1 schematic, left side of the page ("Phones"). It the softrock40 group's Files section:

SoftRock 6.0 docs->RXTX transceiver info->RXTXv6.1->RXTXv6.1 schematic sheet 1 1_22.pdf

It passes the L output channel to the Phones connection during Rx.

Dave

599. Re: Question re. benchmark and soundcard utility programs

Yahoo group: kgksdr
Date: 2007-01-25 21:14:13 UTC
From: Dave
Topic: 595 Message: 599

> With no input, the KGKSDR and benchmark software also shows two spurs
> near the upper edge of the benchmark response or near the lower and
> upper panadapter display at around -120dB, almost independent of the
> sample rate. These are the only spurs except for AC mains related
> ones.
> Is this normal for this sound card?

It appears so. Mine does it and Duncan's Delta 66
(http://www.m0kgk.co.uk/images/soundcards.gif) seems to do it as well.

Dave, WA3OFF

600. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-26 13:46:39 UTC
From: Ray Benton
Topic: 585 Message: 600

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:

> Hi Dave,
Thanks for the help on finding the location of the phones. I was
looking on the picture of the board. I'll look where you directed me.
Ray W7RJC

> > In looking at the RXTX paper work I cann't find a "RXTX v6.1 phone
> > output."
>
> Page 1 of of 2 of the RXTX v6.1 schematic, left side of the page
> ("Phones"). It the softrock40 group's Files section:
>
> SoftRock 6.0 docs->RXTX transceiver info->RXTXv6.1->RXTXv6.1
schematic
> sheet 1 1_22.pdf
>
> It passes the L output channel to the Phones connection during Rx.
>
> Dave
>

601. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-26 07:59:30 UTC
From: verduynj
Topic: 585 Message: 601

Hi Ray,

The RXTX V6.1 production board has a Phones output included.. Please refer to the schematic on Softrock 40 website.

http://groups.yahoo.com/group/softrock40/files/SoftRock%20v6.0%20docs/v6%20RXTX%20transceiver%20info/

Look under RXTXV6.1 Production folder where you will find the ckt diagram. If you have build the RXTX Beta, adding the phones output is easily done, as it consists of just 4 components. I wired these up on the bottom of the PCB..

CW keyer: I use an auxilary CW keyer with built-in sidetone generator connected as shown by KGK helpfile. This works fine. External keyers still are the norm on many QRP rigs and also on older transceivers before build-in keyers became the norm in Blackbox transceivers.

I am planning to post a drawing this weekend showing typical setup and connections for use with the KGK program.

best 73s

Jan G0BBL

--- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@> wrote:
>
>
> >Hi Jan,
> Thank you very much for the desciption you gave on how to connect
> the RXTX. I have not recieved my 40/30M RXTX yet but am planing what
> cabling I will need.
> I am confused about on statement in your instructions:
>
> A pair of Headphones (or a powered PC speaker) is connected to the
> > RXTX v6.1 phone output.
>
> In looking at the RXTX paper work I cann't find a "RXTX v6.1 phone
> output."
> Please help me with this.

> Also it would be helpful if you could write about how you connect
> up for CW and the settings in KGKSDR.
>
> The interfacing of the RXTX seems to be a puzzlement to me any
> help would be appreciated .. Thanks Ray W7RJC
>

602. Re: KGK build 48 - SSB issue

Yahoo group: kgksdr
Date: 2007-01-26 19:48:47 UTC
From: Ray Benton
Topic: 585 Message: 602

--- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@...> wrote:
>

>Jan ... Thanks for the help .. will check out your drawing this
weekend. Ray W7RJC

> Hi Ray,
>
> The RXTX V6.1 production board has a Phones output included..
Please
> refer to the schematic on Softrock 40 website.
>
> http://groups.yahoo.com/group/softrock40/files/SoftRock%20v6.0%
> 20docs/v6%20RXTX%20transceiver%20info/
>
> Look under RXTXV6.1 Production folder where you will find the ckt
> diagram. If you have build the RXTX Beta, adding the phones output
is
> easily done, as it consists of just 4 components. I wired these up
on
> the bottom of the PCB..
>
> CW keyer: I use an auxilary CW keyer with built-in sidetone
> generator connected as shown by KGK helpfile. This works fine.
> External keyers still are the norm on many QRP rigs and also on
older
> transceivers before build-in keyers became the norm in Blackbox
> transceivers.
>
> I am planning to post a drawing this weekend showing typical setup
> and connections for use with the KGK program.
>
> best 73s
>
> Jan G0BBL
>
>
>
>
>
> --- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "verduynj" <Jan.Verduyn@> wrote:
> >
> >

> > >Hi Jan,
> > Thank you very much for the desciption you gave on how to
> connect
> > the RXTX. I have not recieved my 40/30M RXTX yet but am planing
> what
> > cabling I will need.
> > I am confused about on statement in your instructions:
> >
> > A pair of Headphones (or a powered PC speaker) is connected to
> the
> > > RXTX v6.1 phone output.
> >
> > In looking at the RXTX paper work I cann't find a "RXTX v6.1
> phone
> > output."
> > Please help me with this.
> > Also it would be helpful if you could write about how you
connect
> > up for CW and the settings in KGKSDR.
> >
> > The interfacing of the RXTX seems to be a puzzlement to me any
> > help would be appreciated .. Thanks Ray W7RJC
> >
>

603. Where circuitdiagram TX-part?

Yahoo group: kgksdr
Date: 2007-01-27 08:55:27 UTC
From: pa0rbc
Topic: 603 Message: 603

```
Dear Om's,
Where can I find the circuitdiagram of the transmitterpart?
' 73, Roeland, PA0RBC
```

604. Re: [kgksdr] Where circuitdiagram TX-part?

Yahoo group: kgksdr
Date: 2007-01-27 09:03:11 UTC
From: Duncan Munro
Topic: 603 Message: 604

pa0rbc wrote:
> Dear Om's,
> Where can I find the circuitdiagram of the transmitterpart?

http://tinyurl.com/22luts

Which expands to
http://groups.yahoo.com/group/softrock40/files/SoftRock%20v6.0%20docs/v6%20RXTX%20transceiver%20info/RXTXv6.1/

You might need to be a member of the softrock 40 group to see the files.

73,

Duncan
M0KGK

605. Re: Where circuitdiagram TX-part?

Yahoo group: kgksdr
Date: 2007-01-27 12:15:10 UTC
From: pa0rbc
Topic: 603 Message: 605

Many thanks for your fast answer Duncan.
Last year I did build a simple I/Q receiver on perfo-board.
Oscillator with X-tal or DDS.
The diagram was published in the German magazin Funkamateur.
'73 es many thanks for info and your nice program!
Roeland, PA0RBC, Den Helder.

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> pa0rbc wrote:
> > Dear Om's,
> > Where can I find the circuitdiagram of the transmitterpart?
>
> http://tinyurl.com/22luts
>
> Which expands to
> http://groups.yahoo.com/group/softrock40/files/SoftRock%20v6.0%
20docs/v6%20RXTX%20transceiver%20info/RXTXv6.1/
>
> You might need to be a member of the softrock 40 group to see the
files.
>
> 73,
>
> Duncan
> M0KGK
>

606. I cannot believe it!

Yahoo group: kgksdr
Date: 2007-01-28 02:19:42 UTC
From: jabauzit
Topic: 606 Message: 606

2nd QSO with the SoftRock RXTX and KGKSDR.
CW this time.
F6KHM French CW contest.

Jean-Claude PJ2BVU

607. What a night!

Yahoo group: kgksdr
Date: 2007-01-28 05:44:56 UTC
From: jabauzit
Topic: 607 Message: 607

I call it quits at 1:40 AM. Worked 4 French CW stations, the last one F6KAR the CERN Radio Club at the Swiss border and 7900km away.
Duncan, your Software is fantastic and the 100Hz CW filter is extremely useful.

73 Jean-Claude PJ2BVU

608. KGKSDR and Recording

Yahoo group: kgksdr
Date: 2007-01-28 07:03:00 UTC
From: jabauzit
Topic: 608 Message: 608

I realized that I did not record any of these QSOs and had to make another one.
French CW signals are still very strong and managed to have a QSO with F5HPY, it took him some time to get my call correctly but I have a recording. The recording consists only of the RX part, KGKSDR does not record during transmit. It would be nice if Duncan could provide TX recording also.
You can listen to the recording at
http://www.geocities.com/jabauzit/F5HPY_CW.mp3

Good night
Jean-Claude, PJ2BVU

609. Re: KGKSDR and Recording

Yahoo group: kgksdr
Date: 2007-01-28 09:36:26 UTC
From: qrper723
Topic: 608 Message: 609

Jean,

Congrats to you again!
Nice DXing with KGKSDR.
I also put the sound file of today's 2way QRP QSO with JA0VTK/7/QRP.
His power is 500mW and KGKSDR catched his signal well.

I made a QSO with BD1WC in Beijing China and the distance is only
about 1900km and it's only my DX QSO with using RxTx-beta(800mW) +
KGKSDR.

If you could I will talk with you via CQ100 - VoIP system.
So please inform to me.

Anyway I hope we could meet on the air with 2way KGKSDR!

73/72, ja9mat hidehiko.

> French CW signals are still very strong and managed to have a QSO with
> F5HPY, it took him some time to get my call correctly but I have a
> recording. The recording consists only of the RX part, KGKSDR does not
> record during transmit. It would be nice if Duncan could provide TX
> recording also.
> You can listen to the recording at
> http://www.geocities.com/jabauzit/F5HPY_CW.mp3
>
> Good night
> Jean-Claude, PJ2BVU
>

610. Re: [kgksdr] What a night!

Yahoo group: kgksdr
Date: 2007-01-28 09:57:52 UTC
From: Duncan Munro
Topic: 607 Message: 610

jabauzit wrote:
> I call it quits at 1:40 AM. Worked 4 French CW stations, the last one
> F6KAR the CERN Radio Club at the Swiss border and 7900km away.
> Duncan, your Software is fantastic and the 100Hz CW filter is
> extremely useful.

Nice work!

73,

Duncan
M0KGK

611. Re: [kgksdr] KGKSDR and Recording

Yahoo group: kgksdr
Date: 2007-01-28 10:01:42 UTC
From: Duncan Munro
Topic: 608 Message: 611

jabauzit wrote:
> ... It would be nice if Duncan could provide TX
> recording also.

OK, I'll have a look at that - should be fairly easy. It won't be until next weekend as my shack is out of action, but I'll get this one on board and then look at a single sound card schema as well.

73,

Duncan
M0KGK

612. Startup failure

Yahoo group: kgksdr
Date: 2007-01-28 16:44:44 UTC
From: ad9850
Topic: 612 Message: 612

Hi Duncan,

I installed Build 48 on my SAMSUNG notebook P4 2 GHz Win XP SP2 and
got a startup failure.

Message: AppName: kgksdr11.exe ApVer: 1.1.0.48 ModName: asio4all.dll
ModVer: 2.7.0.0 Offset: 00006a33

The system is asking if I would like to send a report to Microsoft.
Clicking in this window closes also the transceiver window.

Any idea what to do?

73 de Bodo, DJ9CS

613. Re: [kgksdr] Startup failure

Yahoo group: kgksdr
Date: 2007-01-28 17:05:16 UTC
From: Duncan Munro
Topic: 612 Message: 613

ad9850 wrote:
> Hi Duncan,
>
> I installed Build 48 on my SAMSUNG notebook P4 2 GHz Win XP SP2 and
> got a startup failure.
>
> Message: AppName: kgksdr11.exe ApVer: 1.1.0.48 ModName: asio4all.dll
> ModVer: 2.7.0.0 Offset: 00006a33
>
> The system is asking if I would like to send a report to Microsoft.
> Clicking in this window closes also the transceiver window.
>
> Any idea what to do?

Hi Bodo, when KGKSDR starts up it loads and initialises a load of DLL's
just like any other application.

It looks like the asio4all dll is having problems on startup from the
message you have sent above.

For the first check, can you double check that ASIO4ALL is installed OK,
and that you can open it up with the ASIO4ALL offline settings application.

73,

Duncan
M0KGK

614. Re: KGKSDR and Recording

Yahoo group: kgksdr
Date: 2007-01-28 17:27:28 UTC
From: jabauzit
Topic: 608 Message: 614

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jabauzit wrote:
> > ... It would be nice if Duncan could provide TX
> > recording also.
>
> OK, I'll have a look at that - should be fairly easy. It won't be
until
> next weekend as my shack is out of action, but I'll get this one on
> board and then look at a single sound card schema as well.
>

RR Duncan, it is not very urgent but as you said it should not be too
difficult: in SSB you have the digitized waveform from the microphone
and in CW you have the CW sidetone waveform - which you will have to
generate even if it is off.
The single sound card stuff seems more important for those having only
one sound card: going into the mixer to change the recording source
between RX and TX has to be a real pain.

Jean-Claude PJ2BVU

615. Re: Startup failure

Yahoo group: kgksdr
Date: 2007-01-28 17:55:25 UTC
From: ad9850
Topic: 612 Message: 615

Duncan,

I can open the ASIO4ALL offline settings application and can change parameters. All looks OK, I am using ASIO4ALL on two others XP computers together with PowerSDR and also KGKSDR1.1 without any problems. It's just the notebook I want to operate together with the RXTXv6.1 which shows the error...

73 de Bodo, DJ9CS

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> ad9850 wrote:
> > Hi Duncan,
> >
> > I installed Build 48 on my SAMSUNG notebook P4 2 GHz Win XP SP2 and
> > got a startup failure.
> >
> > Message: AppName: kgksdr11.exe ApVer: 1.1.0.48 ModName:
asio4all.dll
> > ModVer: 2.7.0.0 Offset: 00006a33
> >
> > The system is asking if I would like to send a report to Microsoft.
> > Clicking in this window closes also the transceiver window.
> >
> > Any idea what to do?
>
> Hi Bodo, when KGKSDR starts up it loads and initialises a load of DLL's
> just like any other application.
>
> It looks like the asio4all dll is having problems on startup from the
> message you have sent above.
>
> For the first check, can you double check that ASIO4ALL is installed
OK,
> and that you can open it up with the ASIO4ALL offline settings
application.
>
> 73,
>
> Duncan
> M0KGK
>

616. Re: [kgksdr] Re: Startup failure

Yahoo group: kgksdr
Date: 2007-01-28 18:55:21 UTC
From: Duncan Munro
Topic: 612 Message: 616

ad9850 wrote:
> Duncan,
>
> I can open the ASIO4ALL offline settings application and can change
> parameters. All looks OK, I am using ASIO4ALL on two others XP
> computers together with PowerSDR and also KGKSDR1.1 without any
> problems. It's just the notebook I want to operate together with the
> RXTXv6.1 which shows the error...

Hi Bodo, thanks for the info. To narrow things down a bit does PowerSDR work OK on this laptop with ASIO4ALL? (Mail me off list if you like to avoid cluttering everyones inbox).

73,

Duncan
M0KGK

617. Softrock RXTXv6.1 and M0KGK minimum connection diagram posted

Yahoo group: kgksdr
Date: 2007-01-28 20:53:50 UTC
From: verduynj
Topic: 617 Message: 617

Hi All,

I have posted a diagram showing necessary connections between PC and Softrock RXTXv6.1 QRP transceiver in the KGKSDR File section under TX.
This is the same diagram as posted on the Softrock Reflector.

Single Card SSB operations is supported, however as there is only one LINE_Out port, CW Sidetone is not supported. use external sidetone oscillator.

In KGKSDR build 48, Switching in SSB mode from RX and TX and visa versa requires two mouseclicks.....
a) MOX softbutton and b) Select Microphone (Recording Control mixer panel) for TX

a) PTT softbutton and b) Line-in (Recording Control Mixer) for Receive mode.

Duncan is looking to implement automatic switching between Microphone and Line_in controls.

Both CW and SSB mode are really working a treat now with KGKSDR software, however please NOTE: Don't forget to execute TX Sideband rejection calibration before you put your RXTX on the air.. Just listen to the unwanted TX Sideband on the station receiver and adjust for minimum S-meter reading. Achieving 50-60dB suppression is easily achievable. The S-meter reading reduces from say S9+20dB to S2 or S3 on Elecraft K2.
Enjoy and 73s

Jan G0BBL

618. KGKSDR in Contest

Yahoo group: kgksdr
Date: 2007-01-29 04:11:29 UTC
From: jabauzit
Topic: 618 Message: 618

Just for fun I sent my log for the French CW Contest:
5 QSOs
Claimed score 75.

Jean-Claude PJ2BVU

619. Re: Program Error?

Yahoo group: kgksdr
Date: 2007-01-26 18:26:35 UTC
From: Duncan Munro
Topic: 590 Message: 619

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> D R Mynatt wrote:
> > Using 1.0.1.29, the first error is: 'Failed to set data for
> > 'ScreenLeft'', and then it gives a series of 'Failed to set data
for...'
> > messages. I press Enter and then eventually it brings up the main
screen.

As a follow up, this is now fixed and a new build will be out sometime
this weekend.

73,

Duncan
M0KGK

620. Re: Question re. benchmark and soundcard utility programs

Yahoo group: kgksdr
Date: 2007-01-26 12:32:02 UTC
From: Duncan Munro
Topic: 595 Message: 620

--- In kgksdr@yahoogroups.com, "huthutugh" <w9td@...> wrote:
>
> Both tools report my recently acquired Delta 66 has 8, 16 and 32 bit
> input support, but not 24 bit, through 96k sampling. It even says 192k
> sampling is supported but only at 8 and 16 bits. Is this a program bug
> or a defective sound card? The KGKSDR software does not complain.

Hi Gary, the tools you mention query the Windows KMixer rather than the soundcard and that is where the 8/16/32 comes from. The Delta 44/66 feed data to Windows at 32 bits, Windows doesn't even know that it's a 24 bit card.

The current software uses ASIO so you don't need to worry about bit depth, this is all optimised automatically.

If you are using D44/66 on the obsolete receiver (non ASIO) software, 32 bits is the option you want.

73,

Duncan
M0KGK

621. Re: [kgksdr] Re: Program Error?

Yahoo group: kgksdr
Date: 2007-01-29 16:20:21 UTC
From: DR Mynatt
Topic: 590 Message: 621

Duncan- is it necessary the program write to the registry? Can you make it so it doesn't?

Dave
=====
----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Friday, January 26, 2007 11:26 AM
Subject: [kgksdr] Re: Program Error?

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> D R Mynatt wrote:
> > Using 1.0.1.29, the first error is: 'Failed to set data for
> > 'ScreenLeft'', and then it gives a series of 'Failed to set data
for...'
> > messages. I press Enter and then eventually it brings up the main
screen.

As a follow up, this is now fixed and a new build will be out sometime
this weekend.

73,

Duncan
M0KGK

622. Re: [kgksdr] Re: Program Error?

Yahoo group: kgksdr
Date: 2007-01-29 16:55:20 UTC
From: Duncan Munro
Topic: 590 Message: 622

DR Mynatt wrote:
> Duncan- is it necessary the program write to the registry? Can you
> make it so it doesn't?

Hi Dave, I have fixed the problem with the registry write - can I send you a .zip file with the new build?

Re: writing to the registry, this is how it remembers the settings from session to session e.g. what soundcard you selected. If I turn this off it will upset a whole lot of people.

73,

Duncan
M0KGK

623. Re: [kgksdr] Re: Program Error?

Yahoo group: kgksdr
Date: 2007-01-29 20:11:39 UTC
From: DR Mynatt
Topic: 590 Message: 623

Can settings also be written to a INI file? Just thinking of a way to make it cross-OS compatible without creating an issue with the stupid registry. Some apps use an INI/DLL file instead, but I certainly understand the issue with reg write.

Please do send the ZIP; I appreciate the excellent work you do and wish I could.

Dave
=====

----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Monday, January 29, 2007 9:55 AM
Subject: Re: [kgksdr] Re: Program Error?

DR Mynatt wrote:
> Duncan- is it necessary the program write to the registry? Can you
> make it so it doesn't?

Hi Dave, I have fixed the problem with the registry write - can I send you a .zip file with the new build?

Re: writing to the registry, this is how it remembers the settings from session to session e.g. what soundcard you selected. If I turn this off it will upset a whole lot of people.

73,

Duncan
M0KGK

624. DSP Detection vs DSP Filters

Yahoo group: kgksdr
Date: 2007-01-26 12:39:08 UTC
From: rhblumeng
Topic: 624 Message: 624

Duncan (and group) -

There has been some activity on the part of some hams with Yaesu FT1000D transceivers using a softrock 6 lite tuned to the 455 kHz IF as a "back end" of a receiver. I believe the original idea was to have a spectrum display and a second receiver. They found more than that and say the following:

"I can say conclusively that a weak SSB and CW signals are generally more readable/more comfortably readable listening through the digital filters of the SoftRock/Rocky or KGKSDR/Delta 44 than through the crystal filtering of the FT1000 when there is QRN/static crashes present. As the FT1000 receiver is widely regarded as one of the best lowband weak signal receivers, owing to its excellent cross mod performance and filtering, this says a lot for how far digital filtering and processing has come."

What I am wondering, is if all the readability improvement comes from the dsp filters, or is some of the improvement due to the detection?

Bob

625. Xmit Audio - Ignition Like Sounds ??

Yahoo group: kgksdr
Date: 2007-01-29 22:26:15 UTC
From: n3hkn
Topic: 625 Message: 625

Using the softrock 6.1. KGKSDR V 1.2.0.48. SBlive 24 for receive, SBLive plain old card for xmit audio.

Basically everything works except that there is an "ignition" like sound on the xmit audio. You really cannot hear it when monitoring in a receiver. However, if you tune off to the side the sound is like an automobile running at idle. It only occurs when there is input to the microphone. Varying levels (mixer and KGKSDR) does not have a dramatic change. Clipper and Gate no effect. The sound occurs at a constant rate unaffected by input whistle, etc. and levels.

I can monitor the audio from the old SBlive card and it sounds clean. If I listen carefully and run the audio from the microphone through KGKSDR, and directly monitor the output, I can hear the pulses only when input to the microphone. It is as if there are very regular dropouts during audio processing ????

Regards - Dick N3HKN

626. Re: [kgksdr] Xmit Audio - Ignition Like Sounds ??

Yahoo group: kgksdr
Date: 2007-01-29 23:57:38 UTC
From: Duncan Munro
Topic: 625 Message: 626

n3hkn wrote:

> I can monitor the audio from the old SBlive card and it sounds clean.
> If I listen carefully and run the audio from the microphone through
> KGKSDR, and directly monitor the output, I can hear the pulses only
> when input to the microphone. It is as if there are very regular
> dropouts during audio processing ????

Hi Dick, you need to increase the buffer size to get round this. Any dropouts on RX or TX mean the ASIO buffer size needs to get bigger - 1024 works well on most machines.

73,

Duncan
M0KGK

627. Re: Xmit Audio - Ignition Like Sounds ??

Yahoo group: kgksdr
Date: 2007-01-30 03:04:27 UTC
From: n3hkn
Topic: 625 Message: 627

I set the ASIO buffer to 1034 but the pulsating noise remained. I agree it sounds like buffer overflow in that it comes and goes. However, when I set the card speed to 41khz instead of 48khz the sound disappears and the audio xmitted is clean. Sb Live-24.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
>
> > I can monitor the audio from the old SBlive card and it sounds
clean.
> > If I listen carefully and run the audio from the microphone
through
> > KGKSDR, and directly monitor the output, I can hear the pulses
only
> > when input to the microphone. It is as if there are very regular
> > dropouts during audio processing ????
>
> Hi Dick, you need to increase the buffer size to get round this.
Any
> dropouts on RX or TX mean the ASIO buffer size needs to get bigger -

> 1024 works well on most machines.
>
>
> 73,
>
> Duncan
> M0KGK
>

628. Can't Set To 96khz Bandwidth Anymore?

Yahoo group: kgksdr
Date: 2007-01-30 11:54:11 UTC
From: n3hkn
Topic: 628 Message: 628

If I try to set to 96khz the program says that cannot be done and stops processing. There is GUI control but to no effect in terms of processing signals. I used to be able to set the v1.1.0.48 to 96khz but since using the RTX Softrock that option is a problem. I can run 96khz. Receive ver 33 works at 96khz ok.

Apparently, I do not understand the various options in the sound card selection where numbers such as 1, 5, 3 and 7 appear in the selection descriptions. I never asked before since setting for receive was by chance, and that worked. SB24 for receive old SBlive for xmit.
Regards,
Dick N3HKN

629. Re: [kgksdr] Can't Set To 96khz Bandwidth Anymore?

Yahoo group: kgksdr
Date: 2007-01-30 12:16:52 UTC
From: Duncan Munro
Topic: 628 Message: 629

n3hkn wrote:
> If I try to set to 96khz the program says that cannot be done and
> stops processing. There is GUI control but to no effect in terms of
> processing signals. I used to be able to set the v1.1.0.48 to 96khz
> but since using the RTX Softrock that option is a problem. I can run
> 96khz. Receive ver 33 works at 96khz ok.
>
> Apparently, I do not understand the various options in the sound card
> selection where numbers such as 1, 5, 3 and 7 appear in the selection
> descriptions. I never asked before since setting for receive was by
> chance, and that worked. SB24 for receive old SBlive for xmit.

Hi Dick, one (or more) of your soundcards does not support 96kHz so ASIO4ALL will not let you set this speed. Everything in the ASIO chain has to be clocked at the same rate so it will pick the lowest common denominator.

Receiver v 33 used Windows KMixer for audio data and could very well request (and receive) 96kHz even though the soundcard was only being clocked at 48kHz. In much the same way, KMixer can "lie" about the Delta 44 etc. and make it look like 192kHz is possible when it isn't.

The 1+2, 3+4 options are for the outputs of your soundcard and would indicate that the card has a number of output channels for surround sound. There should be some documentation with the card that explains what each channel is (front left, rear, sub, etc.)

73,

Duncan
M0KGK

630. ASIO Problem ??

Yahoo group: kgksdr
Date: 2007-02-02 21:36:33 UTC
From: n3hkn
Topic: 630 Message: 630

I am using ASIO 2.7, the latest version. Sound cards are an older SB Live Value max 48khz/16bits and an SB Live 24 max 96khz/24bits. Windows XP/SP2.

I can use ASIO to select either card individually for reception with only that card enabled in ASIO. If I then enable the other card in preparation for using it to "transmit" (create I/Q audio) KGKSDR will lock up. Sometimes I can simply kill it with the Task Manager and other times it requires a re-boot. If I then restart KGKSDR it will initialize ok and go to its normal main screen. However, there is no signal processing and CPU is at 100% (normally 60%, 2ghz cpu). I can get to the options but that is quite slow. Once there I go to the ASIO control and disable the card intended for the xmit function. I then restart KGKSDR and it receives ok at either 48khz or 96khz.

Just after I built the RXTX I was able to select both cards at once and had the system working with SSB ok. Went off to do some other things and upon returning the above occurs.

Regards,
Dick N3HKN

631. Re: ASIO Problem ??

Yahoo group: kgksdr
Date: 2007-02-03 13:05:00 UTC
From: n3hkn
Topic: 630 Message: 631

I think that I may have fixed my problems... As noted I am using an older SB Live Value (lo end SB) for xmit audio. I have used it for a few years. However, it was never used for any "serious" audio tasks. So, despite the 3 degrees F here I finally came to the realization that there may be drivers specifically for this card. Went to SB site and after an install of the drivers I can now select both the newer 24bit and the older 16bit cards with ASIO and have them appear in KGKSDR. Need further testing but things are brighter now.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> I am using ASIO 2.7, the latest version. Sound cards are an older SB
> Live Value max 48khz/16bits and an SB Live 24 max 96khz/24bits.
> Windows XP/SP2.
>
> I can use ASIO to select either card individually for reception with
> only that card enabled in ASIO. If I then enable the other card in
> preparation for using it to "transmit" (create I/Q audio) KGKSDR will
> lock up. Sometimes I can simply kill it with the Task Manager and
> other times it requires a re-boot. If I then restart KGKSDR it will
> initialize ok and go to its normal main screen. However, there is no
> signal processing and CPU is at 100% (normally 60%, 2ghz cpu). I can
> get to the options but that is quite slow. Once there I go to the
> ASIO control and disable the card intended for the xmit function. I
> then restart KGKSDR and it receives ok at either 48khz or 96khz.
>
> Just after I built the RXTX I was able to select both cards at once
> and had the system working with SSB ok. Went off to do some other
> things and upon returning the above occurs.
>
> Regards,
> Dick N3HKN
>

632. Playing back recordings.

Yahoo group: kgksdr
Date: 2007-02-03 17:02:21 UTC
From: Des
Topic: 632 Message: 632

Hi Duncan and the group,

I just downloaded and installed build 48 along with the new Asio drivers in order to see if the Asio drivers would work on my system.

Installation was ok and the receiver is also working well but when I try to select play back of recorded files I find the option remains "greyed out". Do I need to put the receiver in "standby" mode somehow in order to select play back of pre recorded files?

I note from the list of changes that since build 1.1.0.36 (13/11/2006) KGKSDR receiver now starts automatically and that the start button has been removed.

I have read the help files and I still can't figure out what I am missing. No doubt I am doing something "silly" Hi.

So far results with the receiver are impressive, sound quality on RX seems to be a little better since installing the Asio drivers with less "chopping up" of the audio. My machine is a little slow (1 GHz) and has allways run with KGKSDR showing around 90% (or more) CPU loading. Build 48 is still showing around 90% but with much smoother operation.

At this stage I have not tested any of the TX functions since the second sound card installed in my system does not appear in the list within KGKSDR options. The primary sound card is a Soundblaster Live 24 bit PCI card, I may purchase a second identical card for TX at a later stage.

Great software Duncan, well done.

73,s to all on the list.

Des (M0AYF)

633. Re: [kgksdr] Playing back recordings.

Yahoo group: kgksdr
Date: 2007-02-03 17:30:15 UTC
From: Duncan Munro
Topic: 632 Message: 633

Hi Des, the recording playback is on hold at the minute. I have to sort that out along with recording of transmitted info which is likely to be next weekend due to me having a cold right now and not wanting to do too much on it tomorrow :-(

In the interim, if you want to play recorded stuff the old (non TX) receiver is still available from m0kgk.co.uk.

Des wrote:

> At this stage I have not tested any of the TX functions since the
> second sound card installed in my system does not appear in the list
> within KGKSDR options. The primary sound card is a Soundblaster Live
> 24 bit PCI card, I may purchase a second identical card for TX at a
> later stage.

No need to spend any cash - I have just this very minute finished modifying KGKSDR to set line in and mic appropriately so it will work with a single sound card.

Just off down to the freezing shack to try it out :-)

If all goes well, I will upload the new build this evening.

73,

Duncan
M0KGK

634. KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-03 18:45:56 UTC
From: Duncan Munro
Topic: 634 Message: 634

I've just uploaded build 50 to the website at:

http://www.m0kgk.co.uk/sdr/download.php

This version now adds a single soundcard capability for those who are having issues getting two cards to play ball with ASIO4ALL and who don't have a Delta44/66 etc.

You will need the modified Softrock which has the mosfet switch onboard and the phones socket.

On transceiver options there is a "Hardware2" tab which works the single soundcard. Tick the box for single soundcard and KGKSDR will then know you are working with a single card system.

Two events are present which can select various mixer source inputs. Typically RX would select LINE IN and TX would select MIC IN.

Back on the normal hardware tab, you would need to make the soundcard input for RX IQ input and Mic input the same. Also the soundcard outputs for Speaker Out and TX IQ output need to be the same.

The full change log since build 48 is:

LATEST CHANGES TO M0KGK SDR

1.1.0.50 03/02/2007

ADDED: Connection diagram from Jan G0BBL added to help file.

ADDED: Hardware2 options tab to help with single soundcards.

1.1.0.49 29/01/2007 [issued: Dave Mynatt only]

FIXED: RIT now displays correctly when transmitting.

FIXED: Registry access problem which prevented the software running correctly on Windows 98 and Windows Me.

FIXED: Access violation during startup in some cases.

73,

Duncan
M0KGK

635. Re: ASIO Problem ??

Yahoo group: kgksdr
Date: 2007-02-03 18:48:15 UTC
From: Duncan Munro
Topic: 630 Message: 635

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
>
> I think that I may have fixed my problems... As noted I am using an
> older SB Live Value (lo end SB) for xmit audio. I have used it for a
> few years. However, it was never used for any "serious" audio tasks.
> So, despite the 3 degrees F here I finally came to the realization
> that there may be drivers specifically for this card. Went to SB site
> and after an install of the drivers I can now select both the newer
> 24bit and the older 16bit cards with ASIO and have them appear in
> KGKSDR. Need further testing but things are brighter now.

Hi Dick, try the new software (details posted a minute ago) and just use the 24 bit card in a single card config. This may give you a bit better quality than the 24 bit / 16 bit combo.

73,

Duncan
M0KGK

636. Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-03 19:27:22 UTC
From: jabauzit
Topic: 634 Message: 636

```
--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> I've just uploaded build 50 to the website at:
>
> http://www.m0kgk.co.uk/sdr/download.php
>
> This version now adds a single soundcard capability for those who are
> having issues getting two cards to play ball with ASIO4ALL and who
> don't have a Delta44/66 etc.
>
> You will need the modified Softrock which has the mosfet switch
> onboard and the phones socket.
>
......
```

Hi Duncan,

Good work!
Before I test it I have a question: I have the Beta version of the RXTX without the audio switch. Can I still put the microphone and RX out on one sound card, Speaker out and TX in being on 2 sound cards?

Jean-Claude PJ2BVU

637. Re: [kgksdr] Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-03 20:03:20 UTC
From: Duncan Munro
Topic: 634 Message: 637

jabauzit wrote:

> Good work!
> Before I test it I have a question: I have the Beta version of the
> RXTX without the audio switch. Can I still put the microphone and RX
> out on one sound card, Speaker out and TX in being on 2 sound cards?

Hi Jean-Claude, I did deliberately leave in an undocumented 'open door'
for one and a half sound cards. Yes, you should be able to configure as
described above.

73,

Duncan
M0KGK

638. Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-03 20:45:17 UTC
From: jabauzit
Topic: 634 Message: 638

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jabauzit wrote:
>
> > Good work!
> > Before I test it I have a question: I have the Beta version of the
> > RXTX without the audio switch. Can I still put the microphone and RX
> > out on one sound card, Speaker out and TX in being on 2 sound cards?
>
> Hi Jean-Claude, I did deliberately leave in an undocumented 'open door'
> for one and a half sound cards. Yes, you should be able to
configure as
> described above.
>
Great for the back door. I any case I wouldn't have asked for
modifications as there are not many Beta boards and the modification
is fairly easy, I just have to find a 2N7000 in my junk box, not
available in Curacao like anything else. :-(

73 de Jean-Claude PJ2BVU

639. Sound Blaster X-Fi soundcard

Yahoo group: kgksdr
Date: 2007-02-03 21:32:54 UTC
From: tormod_johansen
Topic: 639 Message: 639

Hi.
Thanks for a nice software.
I am using the SB X-Fi Extreme Gamer card with ASIO drivers.
But it have only one input !
3 line out is availible. So output is no problem.

Mic input is using the same jack as line in.
To expand this I have to but the i/o expansion. and it is not easy to
get a hold on here in Norway.
So if it is possible to select another soundcard to get mic input
thru, that would been nice. ASIO or not..

Tormod
LA4ELA

640. Re: [kgksdr] Sound Blaster X-Fi soundcard

Yahoo group: kgksdr
Date: 2007-02-03 22:01:02 UTC
From: Duncan Munro
Topic: 639 Message: 640

tormod_johansen wrote:
> Hi.
> Thanks for a nice software.
> I am using the SB X-Fi Extreme Gamer card with ASIO drivers.
> But it have only one input !
> 3 line out is availible. So output is no problem.
>
> Mic input is using the same jack as line in.
> To expand this I have to but the i/o expansion. and it is not easy to
> get a hold on here in Norway.
> So if it is possible to select another soundcard to get mic input
> thru, that would been nice. ASIO or not..

Hi Tormod, the way out of this would be to use WDM drivers for the X-Fi card with ASIO4ALL over the top and supplement it with another card such as the Soundblaster. Does your motherboard have a built in soundcard? If it's just for mic input, that should be fine.

73,

Duncan
M0KGK

641. Re: Sound Blaster X-Fi soundcard

Yahoo group: kgksdr
Date: 2007-02-03 22:28:36 UTC
From: tormod_johansen
Topic: 639 Message: 641

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> tormod_johansen wrote:
> > Hi.
> > Thanks for a nice software.
> > I am using the SB X-Fi Extreme Gamer card with ASIO drivers.
> > But it have only one input !
> > 3 line out is availible. So output is no problem.
> >
> > Mic input is using the same jack as line in.
> > To expand this I have to but the i/o expansion. and it is not easy to
> > get a hold on here in Norway.
> > So if it is possible to select another soundcard to get mic input
> > thru, that would been nice. ASIO or not..
>
> Hi Tormod, the way out of this would be to use WDM drivers for the X-Fi
> card with ASIO4ALL over the top and supplement it with another card
such
> as the Soundblaster. Does your motherboard have a built in soundcard?
> If it's just for mic input, that should be fine.
>
>
> 73,
>
> Duncan
> M0KGK
>
Thats true..
Well my MB have onboard soundcard, but it is deactivated when i insert
a PCI soundcard.
I have a USB soundcard with microphones input on and I use it for
other programs like Skype, MSN, CQ100 and EchoLink.
I cant use it with ASIO4All because it is only 48k sampling availible.
And I want to use 96k on the SDR..
So I`m stuck there....

642. Re: [kgksdr] Re: Sound Blaster X-Fi soundcard

Yahoo group: kgksdr
Date: 2007-02-04 00:52:17 UTC
From: Duncan Munro
Topic: 639 Message: 642

tormod_johansen wrote:

> Thats true..
> Well my MB have onboard soundcard, but it is deactivated when i insert
> a PCI soundcard.

OK - sounds like the BIOS is set to 'auto'. The onboard card is
enabled, but when you plug in a PCI card it switches off.

> I have a USB soundcard with microphones input on and I use it for
> other programs like Skype, MSN, CQ100 and EchoLink.
> I cant use it with ASIO4All because it is only 48k sampling availible.
> And I want to use 96k on the SDR..
> So I`m stuck there....

If you are after 96k, the Soundblaster Live! 24 can be bought for around
$20-$25 through ebay, and might be a good supplement for your gamer
card. This card actually works well with SDR.

73

Duncan Munro
M0KGK

643. Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-04 08:15:29 UTC
From: ut1wpr
Topic: 634 Message: 643

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> >
> Great for the back door. I any case I wouldn't have asked for
> modifications as there are not many Beta boards and the modification
> is fairly easy, I just have to find a 2N7000 in my junk box, not
> available in Curacao like anything else. :-(
>
> 73 de Jean-Claude PJ2BVU
>
May be you can find any small 12V relay and any n-p-n transistor in
your junk-box, Jean ? :-)
It's very simply to replace 2N7000 by a small board with relay and
transistor. How about?

My 73!

de Vic/ut1wpr

644. Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-04 08:29:11 UTC
From: jabauzit
Topic: 634 Message: 644

--- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@> wrote:
> >
> May be you can find any small 12V relay and any n-p-n transistor in
> your junk-box, Jean ? :-)
> It's very simply to replace 2N7000 by a small board with relay and
> transistor. How about?
>

Hi Vic,
Thanks for the idea . Before the Final version of the RXTX came out it was the idea I had - and what was done with the SDR-1000 - I just have to go thru the schematic to see where I will pick up the signal for the transistor.
Did you try the new KGKSDR with a single sound card?

73, Jean-Claude PJ2BVU

645. Re: Playing back recordings.

Yahoo group: kgksdr
Date: 2007-02-04 10:53:05 UTC
From: Des
Topic: 632 Message: 645

Hi Duncan and the group,

First of all many thanks for the "swift" response to my question. I will do as you suggest and use an earlier RX only version of KGKSDR to play back audio files.

Now I know the ASIO drivers work ok on my system I can wait till a revised TX/RX version of KGKSDR comes along which again supports audio file playback. This will also give me time to purchase and install a second soundcard for Mic I/P.

Thanks again Duncan and I hope your cold gets better soon.

73,s

Des (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Hi Des, the recording playback is on hold at the minute. I have to sort
> that out along with recording of transmitted info which is likely to be
> next weekend due to me having a cold right now and not wanting to do too
> much on it tomorrow :-(
>
> In the interim, if you want to play recorded stuff the old (non TX)
> receiver is still available from m0kgk.co.uk.

646. Re: Playing back recordings.

Yahoo group: kgksdr
Date: 2007-02-04 11:16:08 UTC
From: Des
Topic: 632 Message: 646

Hi again Duncan,

Duncan wrote:
> No need to spend any cash - I have just this very minute finished
> modifying KGKSDR to set line in and mic appropriately so it will work
> with a single sound card.
****

I forgot to mention I also have one of those Soundblaster Live cards
which shares the "Line I/P" and "Mic" sockets for both functions so in
the interests of simplicity I will try a second soundcard to avoid the
need for extra Mic/Line I/P swithching.

73,s

Des (M0AYF)

647. Build 52 - Playback of IQ files and TX recording

Yahoo group: kgksdr
Date: 2007-02-04 13:48:04 UTC
From: Duncan Munro
Topic: 647 Message: 647

A couple of changes to KGKSDR to re-enable the playback of previous IQ recordings, and the ability to record the TX monitor so you get both sides of the QSO.

Normal download link: http://www.m0kgk.co.uk/sdr/download.php

There are some caveats with these items, in particular the IQ playback is slightly different from before in that your IQ file samplerate must match the system samplerate used by KGKSDR.

For example, if you try to play back a file recorded at 96KHz and KGKSDR is set to 48KHz, you will receive a warning letting you know of the mismatch. KGKSDR can be set in the options screen to 96k and it will work. This is not as convenient as before, but the newer architecture works on a system clock rate and other things have to line up with it.

If you find you had some previous 96k recordings and your system will only do 48k because you have a 48k soundcard as lowest common denominator, do not despair. Go to ASIO4ALL and disable to 48k card and use the 96k card for playback.

TX monitor: One of the requests was for the ability to record both sides of the QSO. This now works on CW and SSB and will even work with a single soundcard. However.... this only works for recording AUDIO rather than recording IQ so please make sure the options are set appropriately with Options -> Transceiver -> Recording and then set the recording style to Audio.

73,

Duncan
M0KGK

648. Iq files problems and some thoughts

Yahoo group: kgksdr
Date: 2007-02-04 20:33:51 UTC
From: blindolasupercazzola
Topic: 648 Message: 648

Hallo,
I'm an Italian ham and I am new to the world of SDR. I'd like to thank Duncan for the great effort he puts on his soft. I think the software is really smart and practical. I tested the last 3 or 4 builds and I really appreciated the possibility to playback iq files. I'd like to point out a strange behaviour on my system while playing back IQ files: all the spectrum is translated on the higher part of the spectrum window it's like I were playing a file with a huge DC offset (I hope it's clear enough! Really sorry for my poor English!). The noise flour is at -50dB. I tried playng with rf control but this didn't helped. What am I missing?
My thoughts
I think it would be a great stuff to have an output on a usb port to control a PLL or DSS synthesizer.
It would be enough to have the software typing out the frequency in 22 48 or 96 kHz steps and have a PIC reading it and doing the rest (pll or dss setting, filters)in order to have a frequency agile receiver/transmitter.
While I'm not good enough in software writing I think I can manage such a firmware writnig task and I am sure there are many of you who can! I hope to share experiences and ideas in this interesting way to "do the radio".
Just some thoughts

Thank you all a lot

73

Gabriele

649. RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-04 20:53:46 UTC
From: n3hkn
Topic: 649 Message: 649

Using latest V52 RXTX software (1.1). Focusing on receive, although xmit does work. The problem, in both modes, is that I cannot null the image. Using Guess in manual mode there is some minor 5 to 50db nuling but the phasing number goes up to 50. It acts like the bit correction selstion is not working. I can get a better null near the center of the bandpass and none at the extremes. Tried the bit delay settings and IQ swapping. Also, from time to time "ghost" signals display. These are extremely high amplitude, and very narrow, signal displays. This is usually proceeding by some flashing in the vicinty of where one to four of them might appear. They are not real signals but display artifacts.

Now, if I use KGKSDR receive only build-33 I can null the RXTX images with no problems. Works very well. In this case the phasing number max is 5.

I then tried a receive only softwock V6 with the 1.1.52 software and unable to null the images.

Using the Sound Blaster Live 24 (96khz) card. I have tried it at 48 and 96khz to no avail.

In all the cases same cables and sound card ports. I have a Turtle Beach Santa Cruz installed and enabling it with ASIO or disabling it makes no difference. It is sefined as the microphone and line out for the xmit side.

Dick N3HKN

650. Re: RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-04 21:44:49 UTC
From: philip_g7jur
Topic: 649 Message: 650

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:

Hi Dick.
You have remembered to set RX sample to delay R/H channel by one
sample. This is needed for the Sound Blaster Cards.
Philip g7jur.

>
> Using latest V52 RXTX software (1.1). Focusing on receive, although
> xmit does work. The problem, in both modes, is that I cannot null the
> image. Using Guess in manual mode there is some minor 5 to 50db
> nuling but the phasing number goes up to 50. It acts like the bit
> correction selstion is not working. I can get a better null near the
> center of the bandpass and none at the extremes. Tried the bit delay
> settings and IQ swapping. Also, from time to time "ghost" signals
> display. These are extremely high amplitude, and very narrow, signal
> displays. This is usually proceeding by some flashing in the vicinty
> of where one to four of them might appear. They are not real signals
> but display artifacts.
>
> Now, if I use KGKSDR receive only build-33 I can null the RXTX images
> with no problems. Works very well. In this case the phasing number
> max is 5.
>
> I then tried a receive only softwock V6 with the 1.1.52 software and
> unable to null the images.
>
> Using the Sound Blaster Live 24 (96khz) card. I have tried it at 48
> and 96khz to no avail.
>
> In all the cases same cables and sound card ports. I have a Turtle
> Beach Santa Cruz installed and enabling it with ASIO or disabling it
> makes no difference. It is sefined as the microphone and line out for
> the xmit side.
>
> Dick N3HKN
>

652. Re: RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-05 01:14:06 UTC
From: n3hkn
Topic: 649 Message: 652

Yes, tried the three sample delay options to no avail. I thought it might be the ASIO but there is no alternate sourcing for audio in KGKSDR 1.1. It could still be something in the transformer winding. Wanted to be sure before I rewound it. It acts like the sampling is the issue in that the re is some image nulling toward the center of the passband.

It is halftime at the Super Bowl and fiddling with SDRs is much better than watching a stoned nut cavort around the stage.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, "philip_g7jur" <philip_g7jur@...>
wrote:
>
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@> wrote:
>
> Hi Dick.
> You have remembered to set RX sample to delay R/H channel by one
> sample. This is needed for the Sound Blaster Cards.
> Philip g7jur.
>
>
> >
> > Using latest V52 RXTX software (1.1). Focusing on receive,
although
> > xmit does work. The problem, in both modes, is that I cannot null
the
> > image. Using Guess in manual mode there is some minor 5 to 50db
> > nuling but the phasing number goes up to 50. It acts like the bit
> > correction selstion is not working. I can get a better null near
the
> > center of the bandpass and none at the extremes. Tried the bit
delay
> > settings and IQ swapping. Also, from time to time "ghost" signals
> > display. These are extremely high amplitude, and very narrow,
signal
> > displays. This is usually proceeding by some flashing in the
vicinty
> > of where one to four of them might appear. They are not real
signals
> > but display artifacts.
> >
> > Now, if I use KGKSDR receive only build-33 I can null the RXTX
images

> > with no problems. Works very well. In this case the phasing
number
> > max is 5.
> >
> > I then tried a receive only softwock V6 with the 1.1.52 software
and
> > unable to null the images.
> >
> > Using the Sound Blaster Live 24 (96khz) card. I have tried it at
48
> > and 96khz to no avail.
> >
> > In all the cases same cables and sound card ports. I have a
Turtle
> > Beach Santa Cruz installed and enabling it with ASIO or disabling
it
> > makes no difference. It is sefined as the microphone and line out
for
> > the xmit side.
> >
> > Dick N3HKN
> >
>

653. Re: RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-06 00:12:02 UTC
From: Dave
Topic: 649 Message: 653

> Yes, tried the three sample delay options to no avail.

I haven't found it explicitly stated whether or not the sample offest problem is present only on Rx or is a problem on both Tx and Rx. I'm also not sure if the offest setting in KGKSDR applies to just Rx or applies to both.

Nulling near center but having the required phase correction become larger the farther the frequency is from center sure sounds like an offset-sampling issue. I haven't needed to use large phase corrections with the Delta 44 card, but is seems like large offsets are possible by clicking the scale slider to cause the phase adjustment slider to recenter (without changing the actual setting). I don't know if that would permit sufficient adjustment range or not.

Dave, WA3OFF

654. Re: RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-06 01:20:45 UTC
From: n3hkn
Topic: 649 Message: 654

DL6IAK has a program that produces I/Q audio, in addition to varying the overall level (I&Q combined) you can add in a +advance or a -delay. Using it I find that with KGKSDR you need at least a -3microsecond delay when making phasing adjustments when more than 16khz from center frequency and with a 48khz bandwidth. In real life I can only cause a null somewhere below (toward the center) 17khz from center when using my RXTX or my receive only 6.0. There is something odd because I always assumed, from my experience, that image nulls were possible across the entire bandwidth.

By using the software tones the issue of sample delays and purity of the test signal are eliminated. I now need to go back and spend a few hours carefully using the receive only KGKSDR and the transceiver KGKSDR to see the actual boundaries. I will be testing a Turtle Beach Santa Cruz card (48khz) and a Sound Blaster Live 24 (96khz). Lots of unstructured quickie tests leaves conflicting results.

Right now it seems that the 4khz extremes of the bandpass (48khz) do not null. I "think" that was not always the case??????

Regards - Dick N3HKN

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> > Yes, tried the three sample delay options to no avail.
>
> I haven't found it explicitly stated whether or not the sample offest
> problem is present only on Rx or is a problem on both Tx and Rx. I'm
> also not sure if the offest setting in KGKSDR applies to just Rx or
> applies to both.
>
> Nulling near center but having the required phase correction become
> larger the farther the frequency is from center sure sounds like an
> offset-sampling issue. I haven't needed to use large phase corrections
> with the Delta 44 card, but is seems like large offsets are possible
> by clicking the scale slider to cause the phase adjustment slider to
> recenter (without changing the actual setting). I don't know if that
> would permit sufficient adjustment range or not.
>
> Dave, WA3OFF
>

655. Re: [kgksdr] Re: RXTX 6.1 Transmit Image Null Process-KGKSDR ??

Yahoo group: kgksdr
Date: 2007-02-06 08:48:17 UTC
From: Duncan Munro
Topic: 649 Message: 655

Dave wrote:
>> Yes, tried the three sample delay options to no avail.
>
> I haven't found it explicitly stated whether or not the sample offest
> problem is present only on Rx or is a problem on both Tx and Rx. I'm
> also not sure if the offest setting in KGKSDR applies to just Rx or
> applies to both.

Hi Dave, when the offset feature is selected it only affects RX. TX is always left alone as the SB0410 chipset doesn't have a problem with sample slipping on playback.

73,

Duncan
M0KGK

656. Re: KGKSDR Build 50 released: Single soundcard capability

Yahoo group: kgksdr
Date: 2007-02-06 14:11:31 UTC
From: ut1wpr
Topic: 634 Message: 656

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> Hi Vic,
> Thanks for the idea . Before the Final version of the RXTX came out it
> was the idea I had - and what was done with the SDR-1000 - I just have
> to go thru the schematic to see where I will pick up the signal for
> the transistor.
> Did you try the new KGKSDR with a single sound card?
>
> 73, Jean-Claude PJ2BVU
>

Don't mentioned it.. :-)
Also it will be not a bad to make two separate pair of contacts for
left and right channels. It might give us to hear so-called "binaural
effect" in PowerSDR programm (if it need at all :-))

73! es good SDR-ing :-)

Vic/ut1wpr

657. KGKSDR access violation

Yahoo group: kgksdr
Date: 2007-02-07 21:50:44 UTC
From: Ray Benton
Topic: 657 Message: 657

Hi all,

Need a bit of help. I have a access violation with kgksdr11 build 52.
Here's what happens:

I click on .. Options/Transceiver and get the following error:

Access violation at address 00499A4E in module 'KGKSDR11.exe Read of address 00000000.

I click ok on error message .. then transceiver options window comes up.

I click ok on transceiver options window then I get error:
Access violation at address 00499626 in module 'kgksdr11.exe. Read of address ooooooo.

I click ok and I am back on the main screen.

I DO-NOT HAVE A RXTX CONNECTED YET .. COULD THIS BE THE REASON FOR THIS PROBLEM?

HOPE THIS IS ENOUGH INFO TO HELP. THANKS Ray W7RJC

658. Re: KGKSDR access violation

Yahoo group: kgksdr
Date: 2007-02-07 22:02:31 UTC
From: jabauzit
Topic: 657 Message: 658

--- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@...> wrote:
>
> Hi all,
>
> Need a bit of help. I have a access violation with kgksdr11 build
> 52.
.....
>
> I DO-NOT HAVE A RXTX CONNECTED YET .. COULD THIS BE THE REASON FOR
> THIS PROBLEM?
>
> HOPE THIS IS ENOUGH INFO TO HELP. THANKS Ray W7RJC
>

Hi Ray,
I would think that having/not having a RXTX connected has nothing to do with the problem.
You should post more information on your hardware/software PC configuration - especially Operating System. I am sure Duncan will need it to investigate.

Jean-Claude PJ2BVU

659. Re: [kgksdr] KGKSDR access violation

Yahoo group: kgksdr
Date: 2007-02-07 23:09:00 UTC
From: Duncan Munro
Topic: 657 Message: 659

Ray Benton wrote:
> Hi all,
>
> Need a bit of help. I have a access violation with kgksdr11 build
> 52.
> Here's what happens:
>
> I click on .. Options/Transceiver and get the following error:
>
> Access violation at address 00499A4E in module 'KGKSDR11.exe Read
> of address 00000000.

Hi Ray,

I think you have found an obscure fault with the new code for checking the mixers installed on the system. It may be that you have set a specific mixing device and then removed it from the system in which KGKSDR will throw the sort of exception message you described.

The second message is a second (but seperate) instance of the same fault.

A new build has been uploaded to the website at http://www.m0kgk.co.uk/sdr/download.php which contains a fix which should clear up the problem with the code and the two error messages.

73,

Duncan
M0KGK

660. Re: KGKSDR access violation

Yahoo group: kgksdr
Date: 2007-02-08 01:41:23 UTC
From: Ray Benton
Topic: 657 Message: 660

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray Benton wrote:
> > Hi all,
> >
> > Need a bit of help. I have a access violation with kgksdr11
build
> > 52.
> > Here's what happens:
> >
> > I click on .. Options/Transceiver and get the following error:
> >
> > Access violation at address 00499A4E in module 'KGKSDR11.exe
Read
> > of address 00000000.
>
> Hi Ray,
>
> I think you have found an obscure fault with the new code for
checking
> the mixers installed on the system. It may be that you have set a
> specific mixing device and then removed it from the system in
which
> KGKSDR will throw the sort of exception message you described.
>
> The second message is a second (but seperate) instance of the same
fault.
>
> A new build has been uploaded to the website at
> http://www.m0kgk.co.uk/sdr/download.php which contains a fix which
> should clear up the problem with the code and the two error
messages.
>
> 73,
>
> Duncan
> M0KGK
>
Duncan .. Thanks for your quick response. The build 53 fixed the
problem. Now if you could give me a few more hours in the day I
could finish my RXTX. Thanks for the great software. Ray W7RJC

661. Keying via USB-RS232 ?

Yahoo group: kgksdr
Date: 2007-02-08 09:31:02 UTC
From: Uwe Wensauer
Topic: 661 Message: 661

Hi
Using a notebook and USB-Seriell convertor. When try to key the com_port, nothing happens.

How can I isolate USB- Seriell performance ? Guess I need a check-programm ....

73 Uwe, dk1kq

662. Re: Keying via USB-RS232 ?

Yahoo group: kgksdr
Date: 2007-02-08 09:45:47 UTC
From: Duncan Munro
Topic: 661 Message: 662

--- In kgksdr@yahoogroups.com, "Uwe Wensauer" <DK1KQ@...> wrote:
>
> Hi
> Using a notebook and USB-Seriell convertor. When try to key the
> com_port, nothing happens.
>
> How can I isolate USB- Seriell performance ? Guess I need a
> check-programm ....

Hi Uwe, there is alread a check program on this yahoo group in the files area which you can try.

It was written to test an Iambic keyer on the PC but it does show you what the serial lines are doing on your selected com port - it's very useful.

Go to the files area --> KGKSDR TX --> keyer.zip

73,

Duncan
M0KGK

663. Re: Keying via USB-RS232 ?

Yahoo group: kgksdr
Date: 2007-02-08 11:52:53 UTC
From: Uwe Wensauer
Topic: 661 Message: 663

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Uwe Wensauer" <DK1KQ@> wrote:
> >
> > Hi
> > Using a notebook and USB-Seriell convertor. When try to key the
> > com_port, nothing happens.
> >
> > How can I isolate USB- Seriell performance ? Guess I need a
> > check-programm ....
>
> Hi Uwe, there is alread a check program on this yahoo group in the
> files area which you can try.
>
> It was written to test an Iambic keyer on the PC but it does show you
> what the serial lines are doing on your selected com port - it's very
> useful.
>
> Go to the files area --> KGKSDR TX --> keyer.zip
>
> 73,
>
> Duncan
> M0KGK

hi Duncan
of coarse, I tried it, but nothing happend

Whats the meaning MSR(set CTs and DSR) and MCR (set to DTR and RTS);
Asio driver Asio4all v2

conclusion: USB- seriell causing problem
What brand do You suggest for USB- Serial ?

73
Uwe, DK1KQ

664. Need ste-by-step instruction

Yahoo group: kgksdr
Date: 2007-02-08 18:00:08 UTC
From: ut1wpr
Topic: 664 Message: 664

Sorry for my probably stupid question. I need simply, step-by-step instruction (if such there is at all) how to adjust my txrx v.6.1 on CW mode for transmit. May be somebody of forum-mans made it many times, so please, explain me how it doing?
Thanks in advance,
Vic/ut1wpr
ps Just finished to assemble my rxtx. Very nice working for rx mode. No problem with balancing. But tx mode is bad. Listen on my old kenwood only null-frequency (xtal div 4) and a very wideband signal...

665. Re: Need ste-by-step instruction

Yahoo group: kgksdr
Date: 2007-02-09 05:03:59 UTC
From: ut1wpr
Topic: 664 Message: 665

--- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
>
> Sorry for my probably stupid question. I need simply, step-by-step
[skipped]

Sorry. My question is closed now. Really was stupid. I had a broken
cable with no-connect of one wire. Worked in mono-mode... :-(

BTW, who know, is it possible to change scale in absolute frequency on
spectrogram for a scale in relative frequency?

For examle -1000 -500 0 +500 +1000

Or at least use several different frequencies with quick change ability..

666. Re: Need ste-by-step instruction

Yahoo group: kgksdr
Date: 2007-02-09 05:54:08 UTC
From: jabauzit
Topic: 664 Message: 666

```
--- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@> wrote:
> >
> > Sorry for my probably stupid question. I need simply, step-by-step
> [skipped]
>
> Sorry. My question is closed now. Really was stupid. I had a broken
> cable with no-connect of one wire. Worked in mono-mode... :-(
>
> BTW, who know, is it possible to change scale in absolute frequency on
> spectrogram for a scale in relative frequency?
>
> For examle -1000 -500 0 +500 +1000
>
> Or at least use several different frequencies with quick change
ability..
>
```

Options -> Transceiver -> Frequencies

Right Click in the Frequency Panel and select Add.
Add you new center Frequency with a name.
After that you can select it in the Main screen below the Slow button
when you change the Xtal Jumper.

Jean-Claude, PJ2BVU

667. Re: Need ste-by-step instruction

Yahoo group: kgksdr
Date: 2007-02-09 08:47:42 UTC
From: ut1wpr
Topic: 664 Message: 667

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> After that you can select it in the Main screen below the Slow button
> when you change the Xtal Jumper.

He-he... And where was my eyes before ??? :-)

Greate thanks!

BTW May be you has some info abt Dunkan's plans? How abt frq memory
imlpementing (points for scheds etc..)

73!
de Vic/ut1wpr

668. Latest Alpha version of the KGKSDR software D/L Version

Yahoo group: kgksdr
Date: 2007-02-10 14:17:14 UTC
From: qrper723
Topic: 668 Message: 668

Hi Duncan,

I'm still using KGKSDR Receiver when I'm in SWL.
I found that the latest version display "version 1.0.1.28"
in the menu of "HELP" -> "ABOUT".

But your website say that the latest receiver version is
"1.0.1.33".

Would you please let me know the difference between them?
Anyway my KGKSDR receiver is also working well!
Thanks.

ja9mat hidehiko.

669. Re: [kgksdr] Latest Alpha version of the KGKSDR software D/L Version

Yahoo group: kgksdr
Date: 2007-02-10 15:53:30 UTC
From: Duncan Munro
Topic: 668 Message: 669

qrper723 wrote:
> Hi Duncan,
>
> I'm still using KGKSDR Receiver when I'm in SWL.
> I found that the latest version display "version 1.0.1.28"
> in the menu of "HELP" -> "ABOUT".
>
> But your website say that the latest receiver version is
> "1.0.1.33".
>
> Would you please let me know the difference between them?
> Anyway my KGKSDR receiver is also working well!
> Thanks.

Hi Hide, if you go back to the download page there is a link which says "click here for the list of latest changes". If you click the link it takes you to http://www.m0kgk.co.uk/sdr/changes.txt which details the change with each build.

Build 33 is effectively FM added.

73,

Duncan
M0KGK

670. Features request

Yahoo group: kgksdr
Date: 2007-02-10 17:57:10 UTC
From: jabauzit
Topic: 670 Message: 670

GE Duncan,

The software is excellent, last night I stayed up to try to make more contacts after the surprising results of the preceding weekends.
I did not make too many but they were good ones: SP, W, UR, DL, EW, ON and SM.
It took me a long time but once someone hears you the QSO is usually possible. The spectrum display is the most useful and you can see that stations answering another one are not exactly on frequency (most of the time) and I used the RIT to copy both. In such a case the best thing to make a QSO would be to call on the frequency of the station which answered. I tried by tuning that frequency and using the RIT to tune the station I want to call. Most of the time I failed using this method as the station is more likely to answer another one stronger than me. As this other station is usually on a different frequency this pose a problem: if I try to tune it I will have to also change the RIT in order to tune the station which is the one I want to call.
It did not work too well for me as it is not easy to do with the mouse.
This is where one of my request comes from.

1. I tune the station I want to work, I use the RIT to listen to the station answering it. When the QSO is done I click on a new button which toogles RIT to XIT. When I call I am on the listening frequency of the station I want to call and when I revert to RX I am listening on his frequency.

2. This could also be done with 2 VFOs with the usual functions VFO A, VFO B, A->B, B->A, A<>B and SPLIT. This would be a more general feature.

I also discovered the G8JCFSDR which has a nice feature: it supports quadrature encoders via the serial port:

http://www.g8jcf.dyndns.org/g8jcfsdr_drt1/shaftencoder.htm

It needs a separate power supply but I wonder if it would be possible to power it via the serial port itself using RTS.
Some encoders have also a momentary switch activated by pushing in the shaft and could be used to change the tuning step.

I really love SDRs but hate all this mousing around. Having the possibility to connect 2 of these would be fantastic: 1 for the VFO, 1 for the RIT. That would also mean to have a multiport serial board or USB to serial which work.

These are only a few ideas and feedback from others would be appreciated in order to improve on them.

73 de Jean-Claude PJ2BVU

671. Re: [kgksdr] Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:06:10 UTC
From: Duncan Munro
Topic: 670 Message: 671

jabauzit wrote:

> 2. This could also be done with 2 VFOs with the usual functions VFO A,
> VFO B, A->B, B->A, A<>B and SPLIT. This would be a more general feature.

Hi Jean-Claude,

KGKSDR 2 will have dual receive A & B but this is some time off, it will cause a lot of problems trying to put it in 1.1. XIT would be a lot easier. Don't forget you can also use the keyboard for fine tuning if you don't like the mouse too much:

Tuning with the keyboard
Left arrow moves -10Hz
Right arrow moves +10Hz
PgDn moves -100Hz
PgUp moves +100Hz
Ctrl+PgDn moves -1kHz
Ctrl+PgUp moves +1kHz
Home moves to the start of the band
End moves to the end of the band

> I also discovered the G8JCFSDR which has a nice feature: it supports
> quadrature encoders via the serial port:

Have you heard of the Griffin Powermate? This is the very high quality encoder that is used for PowerSDR and the SDR1000.

It's very cheap too, I got one from the USA for $15.50+shipping through eBay http://search.ebay.com/griffin-powermate_W0QQfromZR40

The resolution of this device is high and KGKSDR supports it straight out of the box - all you do is plug it in to a USB port and start KGKSDR.

I'll have a look at the quadrature stuff though, the whole issue of external interfacing needs looking at and is very much part of the "next step".

73,

Duncan
M0KGK

672. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:08:48 UTC
From: ut1wpr
Topic: 670 Message: 672

```
--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>
> 2. This could also be done with 2 VFOs with the usual functions VFO A,
> VFO B, A->B, B->A, A<>B and SPLIT. This would be a more general feature.
>
It will be enough to have five function as minimum: VFO-A, VFO-B,
SPLIT, SWAP and A=B.

73!
de Vic/ut1wpr
```

673. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:10:11 UTC
From: philip_g7jur
Topic: 670 Message: 673

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:

Hi Jean-Claude,

This Duncan has already done this. If you plug a Griffin Powermate
into a USB port with will have a tuning knob.
Here is the link to the Griffin website
http://www.griffintechnology.com/products/powermate/
Have a look on ebay, you should find them cheaper.

Philip g7jur.

> GE Duncan,
>
> The software is excellent, last night I stayed up to try to make more
> contacts after the surprising results of the preceding weekends.
> I did not make too many but they were good ones: SP, W, UR, DL, EW, ON
> and SM.
> It took me a long time but once someone hears you the QSO is usually
> possible. The spectrum display is the most useful and you can see that
> stations answering another one are not exactly on frequency (most of
> the time) and I used the RIT to copy both. In such a case the best
> thing to make a QSO would be to call on the frequency of the station
> which answered. I tried by tuning that frequency and using the RIT to
> tune the station I want to call. Most of the time I failed using this
> method as the station is more likely to answer another one stronger
> than me. As this other station is usually on a different frequency
> this pose a problem: if I try to tune it I will have to also change
> the RIT in order to tune the station which is the one I want to call.
> It did not work too well for me as it is not easy to do with the mouse.
> This is where one of my request comes from.
>
> 1. I tune the station I want to work, I use the RIT to listen to the
> station answering it. When the QSO is done I click on a new button
> which toogles RIT to XIT. When I call I am on the listening frequency
> of the station I want to call and when I revert to RX I am listening
> on his frequency.
>
> 2. This could also be done with 2 VFOs with the usual functions VFO A,
> VFO B, A->B, B->A, A<>B and SPLIT. This would be a more general feature.
>
> I also discovered the G8JCFSDR which has a nice feature: it supports
> quadrature encoders via the serial port:
>
> http://www.g8jcf.dyndns.org/g8jcfsdr_drt1/shaftencoder.htm
>

> It needs a separate power supply but I wonder if it would be possible
> to power it via the serial port itself using RTS.
> Some encoders have also a momentary switch activated by pushing in the
> shaft and could be used to change the tuning step.
>
> I really love SDRs but hate all this mousing around. Having the
> possibility to connect 2 of these would be fantastic: 1 for the VFO, 1
> for the RIT. That would also mean to have a multiport serial board or
> USB to serial which work.
>
> These are only a few ideas and feedback from others would be
> appreciated in order to improve on them.
>
> 73 de Jean-Claude PJ2BVU
>

674. Re: [kgksdr] Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:20:10 UTC
From: Duncan Munro
Topic: 670 Message: 674

ut1wpr wrote:
> --- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
>> 2. This could also be done with 2 VFOs with the usual functions VFO A,
>> VFO B, A->B, B->A, A<>B and SPLIT. This would be a more general feature.
>>
> It will be enough to have five function as minimum: VFO-A, VFO-B,
> SPLIT, SWAP and A=B.

Hi Vic, can you explain how the swap works? Does it mean move from A to
B (or B to A), or swap the contents of A and B?

73,

Duncan
M0KGK

675. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:28:42 UTC
From: jabauzit
Topic: 670 Message: 675

--- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
>
> It will be enough to have five function as minimum: VFO-A, VFO-B,
> SPLIT, SWAP and A=B.
>
Hi Vic,

Yes, it would be enough. I mentioned the others as it would be easy to
do when you start to implement dual VFO. On the other hand it would
require additional buttons and clutter the screen. May be it is best
to keep it to the minimum of functions necessary.
Last night I worked UR0MC and EW7LO with the SoftRock. When a PJ2BVU
<-> UT1WPR QSO? SoftRock to SoftRock :-)

73 de Jean-Claude PJ2BVU

676. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:21:03 UTC
From: jabauzit
Topic: 670 Message: 676

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
>
> KGKSDR 2 will have dual receive A & B but this is some time off, it
will
> cause a lot of problems trying to put it in 1.1. XIT would be a lot
> easier.

This is very good news. This is not urgent, I just post it so you can
put it in your "To Do" list and also get feedback from others as I
speak only from my own experience.

> Don't forget you can also use the keyboard for fine tuning if
> you don't like the mouse too much:
>

For tuning I use the mouse wheel which does an excellent job,
especially with the possibility of changing the tuning rate by
clicking on it.
The problem is more with the RIT.

> Have you heard of the Griffin Powermate? This is the very high quality
> encoder that is used for PowerSDR and the SDR1000.
>
> It's very cheap too, I got one from the USA for $15.50+shipping through
> eBay http://search.ebay.com/griffin-powermate_W0QQfromZR40
>
> The resolution of this device is high and KGKSDR supports it straight
> out of the box - all you do is plug it in to a USB port and start
KGKSDR.
>

Yes I have known about it when I discovered the SDR-1000 several years
ago.
I was mentioning the encoders because I have a bunch of them and
getting a PowerMate could be relatively expensive: as my mail tends to
disappear - to say the least - I use a Miami mailbox but it is rather
expensive and would almost double the price from the e-Bay price.
On the other hand the propagation is fantastic here.

73 de Jean-Claude PJ2BVU

677. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 19:32:22 UTC
From: jabauzit
Topic: 670 Message: 677

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
...
> Hi Vic, can you explain how the swap works? Does it mean move from
A to
> B (or B to A), or swap the contents of A and B?
>
Hi Duncan,

The swap exchanges the contents of VFO A and VFO B.

Jean-Claude PJ2BVU

678. Re: [kgksdr] Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 20:22:47 UTC
From: Duncan Munro
Topic: 670 Message: 678

jabauzit wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> ...
>> Hi Vic, can you explain how the swap works? Does it mean move from
> A to
>> B (or B to A), or swap the contents of A and B?
>>
> Hi Duncan,
>
> The swap exchanges the contents of VFO A and VFO B.

OK, that makes things very clear. The changes were much easier than I thought, build 54 has now been uploaded which has the following features:

VFO A, B, Split. Split operation uses VFO A for RX and VFO B for TX.

VFO Swap. Swaps contents of VFO A and B.

VFO A=B. Sets 'other' VFO to the current one. e.g. if you are on VFO B, the contents of B will be copied into A.

New file as always at http://www.m0kgk.co.uk/sdr/download.php

73,

Duncan
M0KGK

679. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-10 20:38:11 UTC
From: jabauzit
Topic: 670 Message: 679

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> OK, that makes things very clear. The changes were much easier than I
> thought, build 54 has now been uploaded which has the following
features:
>
> VFO A, B, Split. Split operation uses VFO A for RX and VFO B for TX.
>
> VFO Swap. Swaps contents of VFO A and B.
>
> VFO A=B. Sets 'other' VFO to the current one. e.g. if you are on VFO
> B, the contents of B will be copied into A.
>
> New file as always at http://www.m0kgk.co.uk/sdr/download.php
>

Ratz!!!
Duncan you are Superman.
I will try that tonight.
I will also try the new recording feature, each time I make a QSO I am
so concentrated that I forget to do it.

73 de Jean-Claude PJ2BVU

680. Re: Latest Alpha version of the KGKSDR software D/L Version

Yahoo group: kgksdr
Date: 2007-02-11 00:09:37 UTC
From: qrper723
Topic: 668 Message: 680

Hi Duncan,

Good morning.

Yes I know the feature for the latest version of the kgksdr receiver.
But I think you put the older version than you said.
I downloaded from your website again but the version shows
"1.0.1.28".
Would you please confirm?

My best regards and have a nice weekend.

ja9mat hidehiko.

> Hi Hide, if you go back to the download page there is a link which says
> "click here for the list of latest changes". If you click the link it
> takes you to http://www.m0kgk.co.uk/sdr/changes.txt which details the
> change with each build.
>
> Build 33 is effectively FM added.

681. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-11 06:34:45 UTC
From: ut1wpr
Topic: 670 Message: 681

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>

> Hi Vic, can you explain how the swap works? Does it mean move from
A to
> B (or B to A), or swap the contents of A and B?
>
Hi Duncan and Jean-Claude,

You both are quite correct, swap mean exchanging contents A and B.
But... After some thinking I has a proposal - remove button SPLIT at
all. From where going this button? From "hardware" trx answer is..
Just need to implement so-called "indication" of current state of our
virtual VFOes. We must know at every moment on which VFO we are
working now. So next my proposal is to leave current VFO button in
"pressed" state. Must have behaviuor look like "RadioButton". Not
already pressed and depressed both. But button in "pressed" state
will show us which VFO are now active. The rest of button may have
standard "button" behaviour.

Also want to ask Duncan - may I write you by email with my several
problems? Not shure that this problems will be interesting to all of
group members.

73!
de Vic/ut1wpr

683. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-11 07:01:48 UTC
From: ut1wpr
Topic: 670 Message: 683

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

> Hi Vic, can you explain how the swap works? Does it mean move from
A to
> B (or B to A), or swap the contents of A and B?

I'm very sorry - forgot to add...

Button SPLIT need only in case when we want to has TWO SEPARATE state of our virtual TRX (our program) SPLIT and COMMON states. COMMON state will be prevent from unwanted pressing button A=B. This action may destroy "very important" frequency for use it in a future. If we are shure, that SPLIT is need, we must also have an "indication" - which state are current now: COMMON or SPLIT. In all my constructions of syntesisers this three buttons has associated LEDs. SPLIT button work in TOGGLE mode switching COMMON and SPLIT states, and VFO-A/VFO-B work in RADIOBUTTON mode.

Also want to add: in COMMON state VFOes, SWAP and A=B buttons must be disabled. Only one button SPLIT must be enabled.
Hope this is not require to make many changes in program, just implementing new state variable for COMMON and SPLIT modes and playing with buttons propertyes in every statets. But it is my own opinion and Duncan may do or not to do this, of course :-) Or make it in another way...

Sorry for too many words :-)

73!
de Vic/ut1wpr

684. Re: Features request

Yahoo group: kgksdr
Date: 2007-02-11 18:10:41 UTC
From: ut1wpr
Topic: 670 Message: 684

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:
> Last night I worked UR0MC and EW7LO with the SoftRock. When a PJ2BVU
> <-> UT1WPR QSO? SoftRock to SoftRock :-)
>
> 73 de Jean-Claude PJ2BVU
Ehe-he, Jean-Claude..
I never head PJ in my lovation on 40m. Very pity. My ant is very poor
for DXing with one watt... :-(
Please look here:
http://groups.yahoo.com/group/softrock40/files/UT1WPR/
This evening I made historical QSO with my neighbore (abt 5 km!
distance) This QSO was in SSB mode. I still can't to working CW. My
dots hasn't equal durations... Teee-te-tee. Probably my computer too
slow for SDR-ing :-) Just only 900 MHz. System stopped from
time-to-time on 100% overloaded CPU state.
Must wait a bit for beginning of summer. It will be a time to buy a
new hardware (abt core-duo or something else). A can't change my comp
equipment too often.

73! dear Jean-Claude,
de Vic/ut1wpr

685. 96KHz sample rate

Yahoo group: kgksdr
Date: 2007-02-11 21:19:43 UTC
From: kanewderfish
Topic: 685 Message: 685

Hi gang,
I have a SoundBlaster Xi audio card which does 96KHz sampling. That rate works with Rocky, and Winrad, etc. But I can't seem to get kgksdr to work at that rate. It does function at 44.1KHz and lower, but when set at 48KHz or 96KHz the program freezes when I click start.
Oddly, I 99% certain that at one point I >did< have it working at 96KHz and was doing some manual calibration of the image rejection when I got a floating point error and then I was back to only working at 44.1KHz or lower.
This really has me scratching my head.... Any thoughts?

Thanks!

686. Re: [kgksdr] 96KHz sample rate

Yahoo group: kgksdr
Date: 2007-02-11 21:30:47 UTC
From: Duncan Munro
Topic: 685 Message: 686

kanewderfish wrote:
> Hi gang,
> I have a SoundBlaster Xi audio card which does 96KHz sampling. That
> rate works with Rocky, and Winrad, etc. But I can't seem to get kgksdr
> to work at that rate. It does function at 44.1KHz and lower, but when
> set at 48KHz or 96KHz the program freezes when I click start.
> Oddly, I 99% certain that at one point I >did< have it working at
> 96KHz and was doing some manual calibration of the image rejection when
> I got a floating point error and then I was back to only working at
> 44.1KHz or lower.
> This really has me scratching my head.... Any thoughts?

I would delete the old 96k calibration map. It sounds like it's corrupt
on 96k but the other sample rates work OK.

Go to the folder which has the maps using Windows explorer, normally:

c:\documents and settings\<your name>\

and underneath that:

Application Data\Duncan Amplification\KGKSDR\

Delete any files with 96000 in them and you should be OK.

73,

Duncan
M0KGK

687. Re: 96KHz sample rate

Yahoo group: kgksdr
Date: 2007-02-12 21:45:41 UTC
From: kanewderfish
Topic: 685 Message: 687

> I would delete the old 96k calibration map. It sounds like it's
corrupt
> on 96k but the other sample rates work OK.
>
> Go to the folder which has the maps using Windows explorer, normally:
>
> c:\documents and settings\<your name>\
>
> and underneath that:
>
> Application Data\Duncan Amplification\KGKSDR\
>
> Delete any files with 96000 in them and you should be OK.
>

Hi Duncan,
That did the trick. Thanks! BTW, in the process of attempting to
solve this problem I tried doing a couple of fresh installs of the
application. It appears that the Windows uninstaller does not remove
all the components of the app at least on >my< machine. Do you have a
list of the directorys, registry keys etc that your program creates?
I'd like to make sure there are not any bits and pieces of an old
install floating around on my machine.
Thanks again for the help

72

688. Swaping I/Q

Yahoo group: kgksdr
Date: 2007-02-12 23:04:51 UTC
From: kanewderfish
Topic: 688 Message: 688

Hi gang,
Another question.....How do you determine if the "swap I/Q" check box
should be checked or unchecked?

Thanks!

Bob

689. Re: [kgksdr] Re: 96KHz sample rate

Yahoo group: kgksdr
Date: 2007-02-12 23:34:29 UTC
From: Duncan Munro
Topic: 685 Message: 689

kanewderfish wrote:

> Hi Duncan,
> That did the trick. Thanks! BTW, in the process of attempting to
> solve this problem I tried doing a couple of fresh installs of the
> application. It appears that the Windows uninstaller does not remove
> all the components of the app at least on >my< machine. Do you have a
> list of the directorys, registry keys etc that your program creates?
> I'd like to make sure there are not any bits and pieces of an old
> install floating around on my machine.

If you go into regedit, the keys are:

HKEY_CURRENT_USER
Software
Duncan Amplification
M0KGK IQ Decoder

The key M0KGK IQ Decoder should be deleted along with anything
underneath it.

On directories, the only ones it creates are the one in the Program
Files folder and also the one where the maps are stored. Optionally, it
may create a folder under My Documents called KGKSDR_wav which is
created if the software has been asked to record either IQ data or audio
data.

73

Duncan
M0KGK

690. Re: [kgksdr] Swaping I/Q

Yahoo group: kgksdr
Date: 2007-02-12 23:36:28 UTC
From: Duncan Munro
Topic: 688 Message: 690

kanewderfish wrote:
> Hi gang,
> Another question.....How do you determine if the "swap I/Q" check box
> should be checked or unchecked?

Hi Bob,

Start off with unchecked - it's the default. If your frequencies are reversed, i.e. CW at the top end of the band and SSB down the bottom, it's a sure sign the IQ needs swapping.

I=left channel and Q=right channel although I believe there are other SDR software that have it the opposite way round so it's for compatibility with those.

73,

Duncan
M0KGK

691. Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-13 14:14:27 UTC
From: jabauzit
Topic: 691 Message: 691

Hi Duncan,

Thanks for all the good work and the new features.
The dual VFO is extremely usefull and I used it a lot during the PACC contest.
There is a problem with the "A=B" function which can be easily duplicated: start KGKSDR (VFO A is engaged) change frequency, click "A=B". At that point A and B should be equal but this is not the case. Switching between A and B and clicking A=B works. This can also happen later on but I cannot figure out what are the conditions for it to happen.
I also tested the recording feature - CW only, I forgot to test SSB.
On the recording I made the level of my transmit is very good but the receive part is very weak: how can I adjust these recording levels to make it balanced?

I also have the problem of the degrading audio over time where a low rumble start to appear and which is visible on the spectrum display: instead of sharp "needles" for CW transmissions the spectrum becomes more like a wobbling pyramid. This problem is not new, I increased the buffer size to 1024 and now it takes longer for the problem to appear. For various posts I suppose it is the "ASIO" problem, can you confirm?

73 de Jean-Claude PJ2BVU

692. IQ output tester software bug ?

Yahoo group: kgksdr
Date: 2007-02-13 17:46:22 UTC
From: cesco12342000
Topic: 692 Message: 692

The KGK-IQ output tester software is VERY useful to tune-up the softrockRXTX.

But i did notice a strange behaviour with asio drivers:
when the volume is fully up, some distorsion shows up on the output signal. The distorsion disappears when lowering the volume to -1db.
I spent an hour checking the PA about this distorsion, then i discovered it was the signal generator !

The output with windows drivers doesent show this distorsion at all, so i think it's not a soundcard problem. (i am using asio4all).

btw:
how about a two-tone test signal to look at PA linearity?

693. Re: Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-13 19:12:13 UTC
From: ut1wpr
Topic: 691 Message: 693

--- In kgksdr@yahoogroups.com, "jabauzit" <jabauzit@...> wrote:

> There is a problem with the "A=B" function which can be easily
> duplicated: start KGKSDR (VFO A is engaged) change frequency, click
> "A=B". At that point A and B should be equal but this is not the case.
> Switching between A and B and clicking A=B works. This can also happen

Dear Jean-Claude,

please read my two posts at topice "Future request" from 11 of
february at 8:35 and 9:01.

Your opinion will be very appreciated.

73!

de Vic/ut1wpr

694. Re: [kgksdr] Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-13 19:28:47 UTC
From: Duncan Munro
Topic: 691 Message: 694

jabauzit wrote:

> There is a problem with the "A=B" function which can be easily
> duplicated: start KGKSDR (VFO A is engaged) change frequency, click
> "A=B". At that point A and B should be equal but this is not the case.

Hi Jean-Claude, I've tracked down the fault behind this and fixed it.
This can go out in the next build.

> On the recording I made the level of my transmit is very good but the
> receive part is very weak: how can I adjust these recording levels to
> make it balanced?

I think the audio record takes a feed after the volume control which
will almost guarantee RX is quieter than TX. I need to fix this anyway
as part of other work I am doing with Cesco in interfacing with digi modes.

> I also have the problem of the degrading audio over time where a low
> rumble start to appear and which is visible on the spectrum display:
> instead of sharp "needles" for CW transmissions the spectrum becomes
> more like a wobbling pyramid. This problem is not new, I increased the
> buffer size to 1024 and now it takes longer for the problem to appear.
> For various posts I suppose it is the "ASIO" problem, can you confirm?

I can confirm that the ASIO implementation sounds much worse than the
previous MME implementation and I'm in the process of saying 'goodbye'
to it. Some work is being brought forward from KGKSDR2 to have an
outboard MME plugin, and hopefully WDM if I can ever find any info on
how it works :-)

73,

Duncan
M0KGK

695. Re: [kgksdr] Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-13 19:39:01 UTC
From: Duncan Munro
Topic: 691 Message: 695

Duncan Munro wrote:
> jabauzit wrote:
>
>> There is a problem with the "A=B" function which can be easily
>> duplicated: start KGKSDR (VFO A is engaged) change frequency, click
>> "A=B". At that point A and B should be equal but this is not the case.
>
> Hi Jean-Claude, I've tracked down the fault behind this and fixed it.
> This can go out in the next build.

Sorry, forgot to add some other changes to the VFO.

If you are in VFO B when you select [SPLIT] it now uses VFO B for RX and
VFO A for TX. Accordingly, the VFO swap button is no longer necessary
and has been removed.

This leaves [A] [B] [Split] [A=B] which mimics all the transceivers I
have here with a split VFO facility.

73,

Duncan
M0KGK

696. Lost image rejection on transmit

Yahoo group: kgksdr
Date: 2007-02-13 23:46:53 UTC
From: Lyle Koehler, K0LR
Topic: 696 Message: 696

After lots of fooling around with ASIO4ALL and KGKSDR settings, including a Windows system restore and a re-install of the software, I finally got a stable installation that seemed to perform flawlessly with my SoftRock v6.1RXTX. No more "pops" that kill the receiver for a few seconds, no more "RF" Morse messages even with the AGC on and the RF gain all the way down, and no more jumps to the band edges when I tune with arrow keys or the mouse wheel. RF power output looked good, and I got good audio reports from a number of stations on 75m SSB. But then I realized that I hadn't done a manual TX calibration after the re-install, so I ran a test, using the bandscope on my IC-756PRO as a spectrum analyzer. When I did this a couple of days ago, the calibration procedure worked perfectly. However, now the image is the same strength as the desired signal. Looking at the output of the Audigy 2 NX USB sound card, the I and Q signals are the same amplitude and 180 degrees out of phase. Moving the phase slider in the TX calibration window changes the amplitudes of both signals slightly, but not the relative phase.

To check the sound card, I played back a .wav file that I had created with CoolEdit, consisting of two quadrature 10 kHz signals. The inputs to the SoftRock were 90 degrees out of phase and the image rejection was about 40 dB. Then I uninstalled KGKSDR, deleted all of the .txc files in the Documents and Settings folder, and re-installed KGKSDR. Still no image rejection, either in the calibration mode or in normal SSB or CW transmit mode.

I have been plagued by cockpit errors throughout the process of getting the RXTX software running, but I don't know what I am doing wrong this time. Any suggestions?

Lyle, K0LR

697. Re: Lost image rejection on transmit

Yahoo group: kgksdr
Date: 2007-02-14 04:11:30 UTC
From: Lyle Koehler, K0LR
Topic: 696 Message: 697

Apparently the problem was too many "channels" to choose from in the Audigy 2 NX card. At present I have the speaker output on "7" and the transmitter I/Q output on "5", and that combination gives excellent image rejection after a small amount of amplitude balance adjustment.

Lyle, K0LR

698. KGKSDR Decoder(RX Only) on website is older?

Yahoo group: kgksdr
Date: 2007-02-14 04:38:17 UTC
From: qrper723
Topic: 698 Message: 698

Hi Duncan,

I checked the KGKSDR download website and the latest version
of Decoder(Receive Only) is not build-1.0.1.33.

I thnik it is 1.0.1.28 ?
Please confirm....

ja9mat hide

699. Re: KGKSDR Decoder(RX Only) on website is older?

Yahoo group: kgksdr
Date: 2007-02-14 12:16:10 UTC
From: n3hkn
Topic: 698 Message: 699

Good news on dumping ASIO.
Dick N3HKN
PS: Thanks for all!!!

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
>
> Hi Duncan,
>
> I checked the KGKSDR download website and the latest version
> of Decoder(Receive Only) is not build-1.0.1.33.
>
> I thnik it is 1.0.1.28 ?
> Please confirm....
>
> ja9mat hide
>

700. Re: [kgksdr] KGKSDR Decoder(RX Only) on website is older?

Yahoo group: kgksdr
Date: 2007-02-14 19:37:42 UTC
From: Duncan Munro
Topic: 698 Message: 700

qrper723 wrote:
> Hi Duncan,
>
> I checked the KGKSDR download website and the latest version
> of Decoder(Receive Only) is not build-1.0.1.33.
>
> I thnik it is 1.0.1.28 ?
> Please confirm....

Hi Hide, you are right. I've rebuilt build 33 (as was) and moved up to the website.

73,

Duncan
M0KGK

701. Software for TXRX v6.1

Yahoo group: kgksdr
Date: 2007-02-15 00:04:08 UTC
From: Russell Blair
Topic: 701 Message: 701

I downloaded the SDR software for the TXRXv6.1 as some
of the modes are grayed out as (RTTY ect) I was
hopeing to be able to use the unit on rtty QRP, or I
just can use the SSB mode. Some inout from the group

Tnx Russell NC5O

==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

Expecting? Get great news right away with email Auto-Check.
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http://advision.webevents.yahoo.com/mailbeta/newmail_tools.html

702. Re: [kgksdr] Software for TXRX v6.1

Yahoo group: kgksdr
Date: 2007-02-15 00:15:59 UTC
From: Duncan Munro
Topic: 701 Message: 702

Russell Blair wrote:
> I downloaded the SDR software for the TXRXv6.1 as some
> of the modes are grayed out as (RTTY ect) I was
> hopeing to be able to use the unit on rtty QRP, or I
> just can use the SSB mode. Some inout from the group

Hi Russell, some of the modes are greyed out and will likely stay that way or be removed altogether. It seemed a good idea at the outset to get some of the popular digi mode stuff in there, but the idea of reinventing the MixW wheel does not appeal to me... The future lies in interfacing with the MixW / WinPSK / HRD's of the world.

I'm doing some work right now with Cesco on interfacing KGKSDR with external digimode software. He has picked up PSK31 signals tonight using KGKSDR, and WinPSK. This is with a single soundcard and no add-on software such as VAC. This really does define the direction things need to go in, and I hope he won't mind me posting his link:

http://hb9tlk.ham-radio-op.net/softrock/kgk_psk31.png

Over the next 24-48hrs we would like to add TX capability, fingers crossed that it works out OK!

73,

Duncan
M0KGK

703. Image rejection

Yahoo group: kgksdr
Date: 2007-02-15 00:21:26 UTC
From: kanewderfish
Topic: 703 Message: 703

Hi gang,
How long does the program need to run before the automatic collection of data brings the image rejection up?
Also,when doing a manual calibration point, the 'guess' function does a good job (~45dB) of rejecting the image, but as soon as I click "Ok" to save the point and exit the routine, the image pops back up to the original level. Is this normal?

Thanks!

Bob

704. Re: [kgksdr] Software for TXRX v6.1

Yahoo group: kgksdr
Date: 2007-02-15 00:37:05 UTC
From: Russell Blair
Topic: 701 Message: 704

Thanks Duncan, For all my digital mode I been using MultiPSK software, but I can use other as well nice to see thing are moving along with the TX as well. Hope to have my TXRX by next week and get to building it.

Tns a lot Russell NC5O
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > I downloaded the SDR software for the TXRXv6.1 as
> some
> > of the modes are grayed out as (RTTY ect) I was
> > hopeing to be able to use the unit on rtty QRP, or
> I
> > just can use the SSB mode. Some inout from the
> group
>
> Hi Russell, some of the modes are greyed out and
> will likely stay that
> way or be removed altogether. It seemed a good idea
> at the outset to
> get some of the popular digi mode stuff in there,
> but the idea of
> reinventing the MixW wheel does not appeal to me...
> The future lies in
> interfacing with the MixW / WinPSK / HRD's of the
> world.
>
> I'm doing some work right now with Cesco on
> interfacing KGKSDR with
> external digimode software. He has picked up PSK31
> signals tonight
> using KGKSDR, and WinPSK. This is with a single
> soundcard and no add-on
> software such as VAC. This really does define the
> direction things need
> to go in, and I hope he won't mind me posting his
> link:
>
>
>
http://hb9tlk.ham-radio-op.net/softrock/kgk_psk31.png
>
> Over the next 24-48hrs we would like to add TX
> capability, fingers

> crossed that it works out OK!
>
> 73,
>
> Duncan
> M0KGK
>

==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

We won't tell. Get more on shows you hate to love
(and love to hate): Yahoo! TV's Guilty Pleasures list.
http://tv.yahoo.com/collections/265

705. RXTX Audio Burst Changing rcv to xmit ?

Yahoo group: kgksdr
Date: 2007-02-15 18:49:01 UTC
From: n3hkn
Topic: 705 Message: 705

When changing from receive to transmit there is a short burst of high level audio as evidenced by a brief appearance of color below the MIC slider. It is difficult to be sure, but it seems to only be from the PC audio and is not transmitted.

I am setup for PSK KGKSDR (single card) on a Turtle Beach Santa Cruz with PSK running on an SB 24. The Turtle Beach has enough jacks to make this possible. My present mode of operation/testing is to set and forget the PSK software and use KGKSDR to tune the signal to the audio setting in the PSK software. This way I can take advantage of all of the filtering, etc. of the KGKSDR software. Some PSK can decode ok at 100hz filtering while others need 150hz. New "all in one" software will be outstanding!

Dick N3HKN

706. Re: RXTX Audio Burst Changing rcv to xmit ?

Yahoo group: kgksdr
Date: 2007-02-15 19:40:38 UTC
From: jabauzit
Topic: 705 Message: 706

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> When changing from receive to transmit there is a short burst of high
> level audio as evidenced by a brief appearance of color below the MIC
> slider. It is difficult to be sure, but it seems to only be from the
> PC audio and is not transmitted.
>
> I am setup for PSK KGKSDR (single card) on a Turtle Beach Santa Cruz
> with PSK running on an SB 24. The Turtle Beach has enough jacks to
> make this possible. My present mode of operation/testing is to set and
> forget the PSK software and use KGKSDR to tune the signal to the audio
> setting in the PSK software. This way I can take advantage of all of
> the filtering, etc. of the KGKSDR software. Some PSK can decode ok at
> 100hz filtering while others need 150hz. New "all in one" software
> will be outstanding!
>
Hi Dick,

It seems very interesting. Could you post a diagram of the connexions?
I also have a Santa Cruz but I have the Beta version of the RXRX and
have to make the earphone switch to be able to run the RXTX with one
sound card. I also have an on board sound chip and would be interested
to try PSK. What is the usual frequency for 40m PSK?

Jean-Claude PJ2BVU

707. Re: Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-15 19:44:22 UTC
From: jabauzit
Topic: 691 Message: 707

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> .....
>
> I can confirm that the ASIO implementation sounds much worse than the
> previous MME implementation and I'm in the process of saying 'goodbye'
> to it. Some work is being brought forward from KGKSDR2 to have an
> outboard MME plugin, and hopefully WDM if I can ever find any info on
> how it works :-)
>

Hi Duncan,

You should try to contact Alex (Rocky), I remember that when he was investigating WDM someone asked him some information and he was willing to help. Rocky is also written in Delphi so may be you could ask for some snippets of WDM code.

Jean-Claude PJ2BVU

708. Re: [kgksdr] Re: Report on Latest Build

Yahoo group: kgksdr
Date: 2007-02-15 20:36:23 UTC
From: Duncan Munro
Topic: 691 Message: 708

jabauzit wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>> .....
>>
>> I can confirm that the ASIO implementation sounds much worse than the
>> previous MME implementation and I'm in the process of saying 'goodbye'
>> to it. Some work is being brought forward from KGKSDR2 to have an
>> outboard MME plugin, and hopefully WDM if I can ever find any info on
>> how it works :-)
>>
> Hi Duncan,
>
> You should try to contact Alex (Rocky), I remember that when he was
> investigating WDM someone asked him some information and he was
> willing to help. Rocky is also written in Delphi so may be you could
> ask for some snippets of WDM code.

Yes, good idea. I will contact Alex, he has been very helpful to me in
the past and hopefully will be able to give me some pointers.

73,

Duncan
M0KGK

709. Re: [kgksdr] Re: RXTX Audio Burst Changing rcv to xmit ?

Yahoo group: kgksdr
Date: 2007-02-15 20:35:16 UTC
From: Duncan Munro
Topic: 705 Message: 709

jabauzit wrote:
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>> When changing from receive to transmit there is a short burst of high
>> level audio as evidenced by a brief appearance of color below the MIC
>> slider. It is difficult to be sure, but it seems to only be from the
>> PC audio and is not transmitted.
>>
>> I am setup for PSK KGKSDR (single card) on a Turtle Beach Santa Cruz
>> with PSK running on an SB 24. The Turtle Beach has enough jacks to
>> make this possible. My present mode of operation/testing is to set and
>> forget the PSK software and use KGKSDR to tune the signal to the audio
>> setting in the PSK software. This way I can take advantage of all of
>> the filtering, etc. of the KGKSDR software. Some PSK can decode ok at
>> 100hz filtering while others need 150hz. New "all in one" software
>> will be outstanding!
>>
> Hi Dick,
>
> It seems very interesting. Could you post a diagram of the connexions?
> I also have a Santa Cruz but I have the Beta version of the RXRX and
> have to make the earphone switch to be able to run the RXTX with one
> sound card. I also have an on board sound chip and would be interested
> to try PSK. What is the usual frequency for 40m PSK?

Hi Jean-Claude,

PSK normally 7035-7038 for IARU region 1/3 7080-7083 for region 2.

73,

Duncan
M0KGK

710. Re: RXTX Audio Burst Changing rcv to xmit ?

Yahoo group: kgksdr
Date: 2007-02-15 21:18:41 UTC
From: n3hkn
Topic: 705 Message: 710

The MIC In is connected to the PSK card - in this case the output of a Sound blaster 24.

The Line In is connected to the IQ receive output from the RXTX.

The Front Speakers jack is connected to the transmit IQ audio input of the RXTX.

The Back Speakers jack is connected to amplified speakers AND to the Input of the Sound Blaster 24 that supports PSK.. Here I use a "three-way" connector that has two jacks connected to one plug. Just mechanical since I needed two things connected to one jack.

Speaker Mode is set to 4 Speakers to activate the Front and Back Speakers jacks.

I did not have any luck using the Versa-Jack.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jabauzit wrote:
> > --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@> wrote:
> >> When changing from receive to transmit there is a short burst of high
> >> level audio as evidenced by a brief appearance of color below the MIC
> >> slider. It is difficult to be sure, but it seems to only be from the
> >> PC audio and is not transmitted.
> >>
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> >> with PSK running on an SB 24. The Turtle Beach has enough jacks to
> >> make this possible. My present mode of operation/testing is to set and
> >> forget the PSK software and use KGKSDR to tune the signal to the audio
> >> setting in the PSK software. This way I can take advantage of all of
> >> the filtering, etc. of the KGKSDR software. Some PSK can decode ok at
> >> 100hz filtering while others need 150hz. New "all in one" software
> >> will be outstanding!

> >>
> > Hi Dick,
> >
> > It seems very interesting. Could you post a diagram of the
connexions?
> > I also have a Santa Cruz but I have the Beta version of the RXRX
and
> > have to make the earphone switch to be able to run the RXTX with
one
> > sound card. I also have an on board sound chip and would be
interested
> > to try PSK. What is the usual frequency for 40m PSK?
>
> Hi Jean-Claude,
>
> PSK normally 7035-7038 for IARU region 1/3 7080-7083 for region 2.
>
> 73,
>
> Duncan
> M0KGK
>

711. Re: RXTX Audio Burst Changing rcv to xmit ?

Yahoo group: kgksdr
Date: 2007-02-15 22:03:26 UTC
From: jabauzit
Topic: 705 Message: 711

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> The MIC In is connected to the PSK card - in this case the output of
> a Sound blaster 24.
>
> The Line In is connected to the IQ receive output from the RXTX.
>
> The Front Speakers jack is connected to the transmit IQ audio input
> of the RXTX.
>
> The Back Speakers jack is connected to amplified speakers AND to the
> Input of the Sound Blaster 24 that supports PSK.. Here I use a "three-
> way" connector that has two jacks connected to one plug. Just
> mechanical since I needed two things connected to one jack.
>
> Speaker Mode is set to 4 Speakers to activate the Front and Back
> Speakers jacks.
>
> I did not have any luck using the Versa-Jack.
>

Thanks Dick,

Very clever, I use all my sound boards in 2 speaker mode and did not
realize that setting the mode to 4 speakers would solve my problems.
And there is no need to add the audio switch to the Beta RXTX. I will
try it this evening, for SSB and CW now. I will have to look for a
3-way adapter or make one.

Jean-Claude PJ2BVU

713. Re: [kgksdr] Red MIC Flag - RXTX Transmit & Program Stops in Xmit Mode?

Yahoo group: kgksdr
Date: 2007-02-16 19:02:25 UTC
From: Duncan Munro
Topic: 713 Message: 713

n3hkn wrote:
> I have to operate KGKSDR in the "red zone" to get 1 watt out with a
> single sine-wave 1000hz tone. The audio levels at the input to the
> RTX (no power applied) are Yellow Flag turn on=0.75 p-p and Red Flag
> turn on=1.1vp-p.

Hi Dick, I think red is -4dB or thereabouts so a bit of red is good, too much is not.

> KGKSDR will eventually stop (time varies) creating transmit audio in
> MOX mode at some point when being driven by a continuous sine-wave
> tone. Program continues to function but it will not process the
> incoming audio. It receives ok. Cycling PTT/MOX has no effect.
> Cycling sound program no effect. If I restart KGKSDR it resumes
> processing the audio in MOX mode. There is no time-on(MOX-on)
> correlation that I can detect.

What are you using for audio drivers, is it ASIO4ALL or native drivers with the card? Are you using the PC at all when it does this or does it just stop with no other activity on the machine?

> Tune is a mystery, or my system has a problem. It produces 5vp-p of
> nasty looking audio ????

Tune needs re-doing, it probably overcooks the output signal so this is something to add to my list for this weekend.

> A suggestion --- if KGKSDR is stopped in transmit/MOX mode it
> restarts in that mode. Might be a nasty surprise depending upon
> conditions. Always restarting in PTT mode would be nice.

If I stop KGKSDR (close it) in MOX mode and restart it again, it comes up in PTT mode (i.e. receive). Are you saying it comes up in transmit mode for you?

73,

Duncan
M0KGK

714. Re: Red MIC Flag - RXTX Transmit & Program Stops in Xmit Mode?

Yahoo group: kgksdr
Date: 2007-02-16 20:51:04 UTC
From: n3hkn
Topic: 713 Message: 714

Regarding the program xmit audio stopping. It seems to occur between 3&4 minutes "keydown". Usually I am playing with the xmait sound levels or the xmit image null. I restart and it comes up with signals spaced about 5khz across the 48khz spectrum. I click on PTT (which already appears depressed/selected) and that fixes it. This is where I thought it was coming up in xmit mode. FALSE....

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > I have to operate KGKSDR in the "red zone" to get 1 watt out with
a
> > single sine-wave 1000hz tone. The audio levels at the input to
the
> > RTX (no power applied) are Yellow Flag turn on=0.75 p-p and Red
Flag
> > turn on=1.1vp-p.
>
> Hi Dick, I think red is -4dB or thereabouts so a bit of red is
good, too
> much is not.
>
> > KGKSDR will eventually stop (time varies) creating transmit audio
in
> > MOX mode at some point when being driven by a continuous sine-
wave
> > tone. Program continues to function but it will not process the
> > incoming audio. It receives ok. Cycling PTT/MOX has no effect.
> > Cycling sound program no effect. If I restart KGKSDR it resumes
> > processing the audio in MOX mode. There is no time-on(MOX-on)
> > correlation that I can detect.
>
> What are you using for audio drivers, is it ASIO4ALL or native
drivers
> with the card? Are you using the PC at all when it does this or
does it
> just stop with no other activity on the machine?
>
> > Tune is a mystery, or my system has a problem. It produces 5vp-p
of
> > nasty looking audio ????
>
> Tune needs re-doing, it probably overcooks the output signal so

this is
> something to add to my list for this weekend.
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> > A suggestion --- if KGKSDR is stopped in transmit/MOX mode it
> > restarts in that mode. Might be a nasty surprise depending upon
> > conditions. Always restarting in PTT mode would be nice.
>
> If I stop KGKSDR (close it) in MOX mode and restart it again, it
comes
> up in PTT mode (i.e. receive). Are you saying it comes up in
transmit
> mode for you?
>
> 73,
>
> Duncan
> M0KGK
>

715. How to Serup KGKSDR for PSK with Santa Cruz?

Yahoo group: kgksdr
Date: 2007-02-17 17:18:50 UTC
From: jabauzit
Topic: 715 Message: 715

GA Dick,

I tried to set up the Santa Cruz in 4 channel mode but when I got into KGKSDR configuration I do not see how to select between Front/Rear speakers. I played around and got a "Range Error", I had to kill KGKSDR to get out of this situation. Any help would be much appreciated.

Jean-Claude PJ2BVU

716. How to Setup KGKSDR for PSK with Santa Cruz? More Info

Yahoo group: kgksdr
Date: 2007-02-17 17:26:49 UTC
From: jabauzit
Topic: 716 Message: 716

```
The ASIO control panel does not even show the Front/Rear outputs, it
only shows:

Out: 2 x 8-48kHz, 16 bits

Jean-Claude PJ2BVU
```

717. Re: [kgksdr] How to Setup KGKSDR for PSK with Santa Cruz? More Info

Yahoo group: kgksdr
Date: 2007-02-17 17:37:46 UTC
From: Duncan Munro
Topic: 716 Message: 717

jabauzit wrote:
> The ASIO control panel does not even show the Front/Rear outputs, it
> only shows:
>
> Out: 2 x 8-48kHz, 16 bits

Hi Jean-Claude,

The ASIO control panel is the wrong place to set the output channels I'm afraid.

Go to KGKSDR -> Options -> Transceiver -> Hardware

Under the speaker out and TX IQ out dropdowns you may see some channel 1/2, channel 3/4 etc. etc.

These are the ones you need to play with to get the different outputs from your soundcard.

73,

Duncan
M0KGK

718. Re: How to Setup KGKSDR for PSK with Santa Cruz? Solved !!!!!

Yahoo group: kgksdr
Date: 2007-02-17 18:09:53 UTC
From: jabauzit
Topic: 716 Message: 718

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jabauzit wrote:
> > The ASIO control panel does not even show the Front/Rear outputs, it
> > only shows:
> >
> > Out: 2 x 8-48kHz, 16 bits
>
> Hi Jean-Claude,
>
> The ASIO control panel is the wrong place to set the output channels
I'm
> afraid.
>
> Go to KGKSDR -> Options -> Transceiver -> Hardware
>
> Under the speaker out and TX IQ out dropdowns you may see some channel
> 1/2, channel 3/4 etc. etc.
>
> These are the ones you need to play with to get the different outputs
> from your soundcard.
>
Hi Duncan,

I was not trying to set it up from ASIO, but if ASIO does not see it
KGKSDR does not see it.
The problem was with the Santa Cruz Panel:
Not only I had to put it in 4 channels mode, but I discovered that on
the "Other" Tab there is an option labeled:
"Enable multiple wave out devices" which is unmarked by default.
After enabling it I went into the ASIO control panel from within
KGKSDR where all these new devices showed up. I had to enable the
Front and Rear devices, quit KGKSDR as it did not see the changes.
After restarting KGKSDR I could set up my outputs as needed.
Now I have to wait for some activity on 40m.

Why make it simple when you can make it complicated?

Jean-Claude PJ2BVU

719. KGKSDR Build 55 released: DLL interface

Yahoo group: kgksdr
Date: 2007-02-17 19:29:17 UTC
From: Duncan Munro
Topic: 719 Message: 719

KGKSDR build 55 has been uploaded to the website at:

http://www.m0kgk.co.uk/sdr/download.php

The key difference with this version is it interfaces with the DLL written by Cesco HB9TLK. The other side of this DLL interfaces with WinPSK to allow PSK transmissions to be carried out.

The DLL and other files can be downloaded from http://hb9tlk.ham-radio-op.net/softrock/ The direct link for the files is http://hb9tlk.ham-radio-op.net/softrock/winpsk213.zip Have a look at some of the screen shots that Cesco has put up to get an idea of how it operates.

The DLL must be simultaneously accessed by KGKSDR and WinPSK so it's best to put loop.dll in c:\windows\system32 and make sure it is not present anywhere else. The other alternative is to put all the software (including WinPSK) in the KGKSDR program file folder, but the former is arguably a more sensible way of doing things.

KGKSDR automatically works out if it's there and uses it. For data modes, simply hit F12 in WinPSK and KGKSDR automatically goes into TX mode. For normal SSB/CW it's business as usual - it actually works quite well.

The full change log for build 55 is:

==========

LATEST CHANGES TO M0KGK SDR

1.1.0.55 17/02/2007

FIXED: Problem with VFO A=B not working correctly early on in run.

FIXED: If split is pressed after VFO B the format is now VFO B for RX and VFO A for TX.

FIXED: Tuning now has reduced amplitude to prevent over driving the soundcard.

FIXED: Recording of audio now takes feed from before AF gain so is always at a high level.

FIXED: TX power control did not work on SSB.

ADDED: Dynamic loading of loop.dll by HB9TLK to allow other applications to interface with KGKSDR (i.e. data

mode apps). Place loop.dll in the same folder as
kgksdr11.exe or any folder in the system path and the
software will automatically use it.

REMOVED: VFO Swap function (not now needed)

==========

73,

Duncan
M0KGK

720. Re: KGKSDR Build 55 released: DLL interface

Yahoo group: kgksdr
Date: 2007-02-17 20:02:54 UTC
From: cesco12342000
Topic: 719 Message: 720

I found:

-it complains if it doesent find the dll, but starts ok.
-to trasnmit a clean signal, i have to disable "clip"
and set the mic gain quite low.

THANKS Duncan !

721. Multimedia error #11

Yahoo group: kgksdr
Date: 2007-02-17 20:11:06 UTC
From: Kleibe J
Topic: 721 Message: 721

Hi all

Im having a bit trouble with my onboard card.
When I press de MOX buttom, always get 'Multimedia Error #11' or when
I try to press Transceiver Options buttons like OK and Apply...

The ASIO4all is installed on my computer.

Any help would be appreciated.

73
Kleibe
PP2KR

722. Re: [kgksdr] Multimedia error #11

Yahoo group: kgksdr
Date: 2007-02-17 20:43:57 UTC
From: Duncan Munro
Topic: 721 Message: 722

Kleibe J wrote:
> Hi all
>
> Im having a bit trouble with my onboard card.
> When I press de MOX buttom, always get 'Multimedia Error #11' or when
> I try to press Transceiver Options buttons like OK and Apply...

Multimedia error #11 is 'Invalid parameter passed' which still doesn't
mean much at this stage.

> The ASIO4all is installed on my computer.

Can you tell me what build of ASIO4ALL you are using?

Also from Options -> Transceiver -> Hardware, what settings are used for:

RX IQ input
Speaker out
Mic input
TX IQ output

And finally the build of KGKSDR (it's in Help -> About).

73,

Duncan
M0KGK

723. Re: [kgksdr] Re: KGKSDR Build 55 released: DLL interface

Yahoo group: kgksdr
Date: 2007-02-17 20:47:28 UTC
From: Duncan Munro
Topic: 719 Message: 723

cesco12342000 wrote:
> I found:
>
> -it complains if it doesent find the dll, but starts ok.

Hmmm yes... I've fixed this for build 56 but won't be putting it out until tomorrow.

> -to trasnmit a clean signal, i have to disable "clip"
> and set the mic gain quite low.

Yup, clip and gate should be off for data modes or it will interfere with the signal. As in my last email, I got a lot of flat topping of the signal and had to take mic gain down to the yellow and cut the power quite a bit - it's really easy to overdrive the output. Need to have a look at this one and sort out gain levels for build 56.

The PSK output then was very clean but unfortunately not having any luck raising other stations for a QSO right now! Will try them again in the morning.

73,

Duncan
M0KGK

724. 1.1 with PSK

Yahoo group: kgksdr
Date: 2007-02-17 21:12:45 UTC
From: n3hkn
Topic: 724 Message: 724

Works ok here. I ignore the red flag for xmit distortion and use my scope to set the upper limit observing the input to the RXTX Softrock. My meter has a 30 watt scale an I can get about 1.5 watts max on it. No heat problems.

I had to put the loop.dll in the KGKSDR folder. Looks like you may have hard-coded the location for System32 on drive C:. Mine is on drive D:.

Regards & thanks,
Dick N3HKN

Jean-Claude - tks for the sound card suggestion. I never tried that setting under the Other tab. My system worked by setting everythin to Santa Cruz-1 but now the received audio is clearer using specific channel selections.....

725. QSO qith PSK/RXTX 1.1

Yahoo group: kgksdr
Date: 2007-02-17 22:27:55 UTC
From: n3hkn
Topic: 725 Message: 725

Just finished a 30 minute QSO over an 800 mile hop with 1 watt. Very good copy on both ends. I was using a USER 250hz filter and no one came close enough to hurt the QSO. Some quite strong signals but no harm done by them. Signal quality on the distant end was very good. I was using a test lead with alligator clips to do the PTT since I have not built an interface between the PC and the RXTX.

Bottom line - it worked VERY well!! The ability to construct the needed filter and then use KGKSDR to put the desired signal in it is utopia for PSK. I set WINPSK at the center of the filtered bandwidth and tune with KGKSDR.

Turtle Beach Santa Cruz - KGKSDR
Soundblaster 24 Live - WinPsk
Regards,
Dick N3HKN

726. Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 00:16:58 UTC
From: Ford Peterson
Topic: 726 Message: 726

I'm trying to debug my RXTX board this weekend. I saw the 'chatter' about the new build #55 so I immediately down loaded it. Kgksdr used to work. Now, when it boots, I get an error message that reads:

Cannot locate entry point in InitRXPlayback in C:/program files/...transceiver/loops.dll

Can I buy a clue from somebody? All I did was download the #55 build and install it. It appears to have wasted something in the program files.

Ford-N0FP
ford@...

727. Re: 1.1 with PSK

Yahoo group: kgksdr
Date: 2007-02-18 00:41:03 UTC
From: jabauzit
Topic: 724 Message: 727

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
.....
>
> Jean-Claude - tks for the sound card suggestion. I never tried that
> setting under the Other tab. My system worked by setting everythin to
> Santa Cruz-1 but now the received audio is clearer using specific
> channel selections.....
>

I did not even try when I did not see the different devices. Now I suppose that you can play with the Versa Jack, I will have a look at it. I suppose we have to use Virtual 5+1 mode as KGKSDR will not output anything on channels 5/6 - KGKSDR would need to have another setting to duplicate the audio out on another device.
But in any case the Build 55 permits to get away with a physical connexion for WinPSK. For other modes the 5+1 mode is something to look into.

Jean-Claude PJ2BVU

728. Re: QSO qith PSK/RXTX 1.1

Yahoo group: kgksdr
Date: 2007-02-18 00:44:29 UTC
From: jabauzit
Topic: 725 Message: 728

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> Just finished a 30 minute QSO over an 800 mile hop with 1 watt.

Congratulations.

>
> .....
>
> Turtle Beach Santa Cruz - KGKSDR
> Soundblaster 24 Live - WinPsk

It looks like you used the old way. With build 55 you should be able
to do it using only the Santa Cruz.

Jean-Claude PJ2BVU

729. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 00:47:04 UTC
From: jabauzit
Topic: 726 Message: 729

--- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@...> wrote:
>
> I'm trying to debug my RXTX board this weekend. I saw the 'chatter'
about
> the new build #55 so I immediately down loaded it. Kgksdr used to work.
> Now, when it boots, I get an error message that reads:
>
> Cannot locate entry point in InitRXPlayback in C:/program
> files/...transceiver/loops.dll
>
> Can I buy a clue from somebody? All I did was download the #55
build and
> install it. It appears to have wasted something in the program files.
>
> Ford-N0FP

Hi Ford,

Even with the error it sill works OK.

To avoid the error download the WinPSK zip file mentioned in one of
the messages. I unzipped everything in the same directory as KGKSDR.
The error is gone and you can do PSK.

Jean-Claude PJ2BVU

730. Re: [kgksdr] Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 00:54:11 UTC
From: Duncan Munro
Topic: 726 Message: 730

Ford Peterson wrote:
> I'm trying to debug my RXTX board this weekend. I saw the 'chatter' about
> the new build #55 so I immediately down loaded it. Kgksdr used to work.
> Now, when it boots, I get an error message that reads:
>
> Cannot locate entry point in InitRXPlayback in C:/program
> files/...transceiver/loops.dll
>
> Can I buy a clue from somebody? All I did was download the #55 build and
> install it. It appears to have wasted something in the program files.

Hi Ford, no need to buy a clue - it all comes for free on here. Just
ignore the error message, build 56 which will come out on Sunday
addresses the issue and gets rid of the error message.

73,

Duncan
M0KGK

731. First QSO

Yahoo group: kgksdr
Date: 2007-02-18 12:11:14 UTC
From: Duncan Munro
Topic: 563 Message: 731

It's a bit ironic that I've done quite a bit of work on SDR and never had a QSO on it!

That changed today: http://www.m0kgk.co.uk/images/qso.gif

M0KGK to GM4KGK, 832km using PSK31 and 400mW Softrock (the original unmodified design), KGKSDR and WinPSK.

Thanks to Cesco for the DLL interface and code changes that made this PSK QSO possible.

73,

Duncan
M0KGK

732. KGKSDR Build 56 released: Minor update

Yahoo group: kgksdr
Date: 2007-02-18 12:36:39 UTC
From: Duncan Munro
Topic: 732 Message: 732

A minor update has been released to cover off a couple of problems
with loading the DLLs and error messages resulting from failed loads.

http://www.m0kgk.co.uk/sdr/download.php

Here's the change log for build 56:

==========

1.1.0.56 18/02/2007

FIXED: Error on startup if loop.dll not present.

FIXED: DLL will now load properly from system32 etc.

ADDED: Wording 'HB9TLK dll' on bottom of DSP panel, if
displayed you know the DLL is loaded correctly.

==========

73,

Duncan
M0KGK

733. Re: KGKSDR Build 56 released: Minor update

Yahoo group: kgksdr
Date: 2007-02-18 13:33:39 UTC
From: qrper723
Topic: 732 Message: 733

Duncan,

Fine thank you!
It appears and works well here.

ja9mat hidehiko.

> ADDED: Wording 'HB9TLK dll' on bottom of DSP panel, if
> displayed you know the DLL is loaded correctly.

734. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 13:35:34 UTC
From: philip_g7jur
Topic: 726 Message: 734

--- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@...> wrote:

I have downloaded KGKSDR Ver 56. When I run the program I get error
telling me that MSVCR.DLL is not found.
Philip g7jur.

>
> I'm trying to debug my RXTX board this weekend. I saw the 'chatter'
about
> the new build #55 so I immediately down loaded it. Kgksdr used to work.
> Now, when it boots, I get an error message that reads:
>
> Cannot locate entry point in InitRXPlayback in C:/program
> files/...transceiver/loops.dll
>
> Can I buy a clue from somebody? All I did was download the #55
build and
> install it. It appears to have wasted something in the program files.
>
> Ford-N0FP
> ford@...
>

735. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 13:42:46 UTC
From: qrper723
Topic: 726 Message: 735

Philip,

Hi,
You need to get it from website below;

http://www.dll-files.com/dllindex/dll-files.shtml?msvcr70

I've fixed the same error now and worls well with Winpsk.
Have a good day.

ja9mat hidehiko.

--- In kgksdr@yahoogroups.com, "philip_g7jur" <philip_g7jur@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@> wrote:
>
> I have downloaded KGKSDR Ver 56. When I run the program I get error
> telling me that MSVCR.DLL is not found.
> Philip g7jur.

736. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 14:02:33 UTC
From: philip_g7jur
Topic: 726 Message: 736

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:

Many thanks for that Hidehiko.
Philip g7jur.

>
> Philip,
>
> Hi,
> You need to get it from website below;
>
> http://www.dll-files.com/dllindex/dll-files.shtml?msvcr70
>
> I've fixed the same error now and worls well with Winpsk.
> Have a good day.
>
> ja9mat hidehiko.
>
> --- In kgksdr@yahoogroups.com, "philip_g7jur" <philip_g7jur@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@> wrote:
> >
> > I have downloaded KGKSDR Ver 56. When I run the program I get error
> > telling me that MSVCR.DLL is not found.
> > Philip g7jur.
>

738. Xmit Carrier Suppression - build 56

Yahoo group: kgksdr
Date: 2007-02-18 15:11:22 UTC
From: n3hkn
Topic: 738 Message: 738

I was "faked out" by the process for carrier image suppression. It seems that the software that does this does not look at the existing values from previous cycles. Therefore, each time to go back to look at the results of a suppression procedure, with the suppression software, it is as if nothing had happened. The plots look good but the suppressed carrier has returned to its original un-suppressed value.

However, if you look at the actual xmit carrier in a "normal" transmit condition it HAS been suppressed. Since I was just using the suppression software to evaluate the results I was completely confused. Anyhow, it works and that is what counts.

I have eliminated my other sound cards and now run exclusively on the Turtle Beach for SDR and PSK. Amazing when people find how to pipe audio inside the Operating System. I now have lots of extra audio cables for other projects!

Thanks Duncan et al...

Dick N3HKN

739. Re: Xmit Carrier Suppression - build 56

Yahoo group: kgksdr
Date: 2007-02-18 16:36:04 UTC
From: Dave
Topic: 738 Message: 739

> It seems that the software that does this does not look at the
> existing values from previous cycles. Therefore, each time to go
> back to look at the results of a suppression procedure, with the
> suppression software, it is as if nothing had happened.

Thanks for bringing that up. I was going to comment on that as well. Without manually recording the settings, I would like to be able to see how the phase and I/Q balance change with changes to the hardware (bias adjustment, for example).

It might be nice if the Tx phase and balance sliders jumped to existing settings for those frequency points where an adjustment is saved. If not that, at least a Load Saved Point button would be useful. Additionally, it might be handy if the phase and balance slider values tracked the currently calculated (from the curve fit) phase and balance as the frequency slider is moved. It seems that once the curve is somewhat established, values from a point on the curve would be a better starting point than the values of the previous saved point.

Dave

740. Re: [kgksdr] Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 19:37:17 UTC
From: Duncan Munro
Topic: 726 Message: 740

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@...> wrote:
>
> I have downloaded KGKSDR Ver 56. When I run the program I get error
> telling me that MSVCR.DLL is not found.

Hmmm... MSVCR.DLL doesn't sound like one of the ones that KGKSDR loads up. I see Hide has posted a link and all is well now.

Cesco: if you are reading this - do you know if this dll is one that loop.dll or WinPSK loads?

73,

Duncan
M0KGK

741. Re: [kgksdr] Re: Xmit Carrier Suppression - build 56

Yahoo group: kgksdr
Date: 2007-02-18 19:41:45 UTC
From: Duncan Munro
Topic: 738 Message: 741

Dave wrote:

> ... Additionally, it might be handy if the phase and balance
> slider values tracked the currently calculated (from the curve fit)
> phase and balance as the frequency slider is moved.

This sounds like a good idea and would save some time during the cal process. The whole thing will get re-written for version 2.0 and will include this handy feature.

One of the nice things is a lot has been learned over the last year with auto/manual cal and the tx calibration in terms of ease of use (or lack of it!)

73,

Duncan
M0KGK

742. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 20:16:00 UTC
From: cesco12342000
Topic: 726 Message: 742

```
> do you know if this dll is one that
> loop.dll or WinPSK loads?

No idea. But loop.dll and pskcore.dll are compiled
with VC7, which adds loads of BS nobody uses.
Once this is stable i will compile with VC6, which
makes faster and smaller dll's, and doesent add the
.net crapware.

or maybe winpsk needs it ? No idea...
```

743. Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 21:07:12 UTC
From: philip_g7jur
Topic: 726 Message: 743

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> philip_g7jur wrote:
> > --- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@> wrote:
> >
> > I have downloaded KGKSDR Ver 56. When I run the program I get error
> > telling me that MSVCR.DLL is not found.

Sorry I meant MSVCR70.DLL
Philip g7jur

> Hmmm... MSVCR.DLL doesn't sound like one of the ones that KGKSDR loads
> up. I see Hide has posted a link and all is well now.
>
> Cesco: if you are reading this - do you know if this dll is one that
> loop.dll or WinPSK loads?
>
>
> 73,
>
> Duncan
> M0KGK
>

744. Re: [kgksdr] Re: Vers 55 errors

Yahoo group: kgksdr
Date: 2007-02-18 21:13:15 UTC
From: Duncan Munro
Topic: 726 Message: 744

philip_g7jur wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>> philip_g7jur wrote:
>>> --- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@> wrote:
>>>
>>> I have downloaded KGKSDR Ver 56. When I run the program I get error
>>> telling me that MSVCR.DLL is not found.
>
> Sorry I meant MSVCR70.DLL
> Philip g7jur

I think it means MicroSoft Visual C Runtime version 7.0 and will be
something that WinPSK needs. See the note also from Cesco about
recompiling which will probably take away the need for this file anyway.

73,

Duncan
M0KGK

745. kgksdr some checkboxes - for what?

Yahoo group: kgksdr
Date: 2007-02-19 09:10:38 UTC
From: ut1wpr
Topic: 745 Message: 745

```
Who can explain me purposes of two checkboxes on kgksdr panel?
There are named CLIP and GATE.
Thanks,
de Vic/ut1wpr
```

746. CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 13:54:42 UTC
From: Dave
Topic: 746 Message: 746

I've noticed that KGKSDR's CPU usage seems to have increased lately.
At 96KHz Rx on my 2.4 GHz Pentium 4 I've measured:

Build 51: 62%
Build 52: 62%
Build 53: 62%
Build 54: 79%
Build 55: 63%
Build 56: 74%

Interesting is the drop for Build 55, but the measurements do seem to
be repeatable. I'm a bit worried about the usage getting that high.
Some other Rx programs run at half that usage very nicely.

Dave

747. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 14:40:01 UTC
From: ut1wpr
Topic: 746 Message: 747

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> I've noticed that KGKSDR's CPU usage seems to have increased lately.
> At 96KHz Rx on my 2.4 GHz Pentium 4 I've measured:
>
> Build 51: 62%
> Build 52: 62%
> Build 53: 62%
> Build 54: 79%
> Build 55: 63%
> Build 56: 74%
>
> Interesting is the drop for Build 55, but the measurements do seem to
> be repeatable. I'm a bit worried about the usage getting that high.
> Some other Rx programs run at half that usage very nicely.
>
> Dave
>
It's a wellknown process... At a first we find direction, first
solution and only then we make optimisation. As usualy... :-)
73!
Vic/ut1wpr

748. Spectrum display irregularites

Yahoo group: kgksdr
Date: 2007-02-19 17:06:03 UTC
From: Lyle Koehler, K0LR
Topic: 748 Message: 748

While checking the spectrum display calibration in KGKSDR against a signal generator, I noticed that the amplitude readout for steady-state signals can vary by as much as 30 dB, depending on the frequency. For example, using the "stock" 40m LO frequency (7055.619 in my case), a -60 dBm signal at 7.030 MHz shows up as -60 dB, but a 7.030 MHz signal is displayed at -90 dB. If I tune to those frequencies, the audio levels and S meter readings are the same. Anyone else notice this, or is it unique to my sound card setup? I'm using an Audigy 2NX for I/Q inputs and outputs; SB Live 24 for mike and speaker.

This does not affect the usefulness of the spectrum display for normal reception, since a keyed CW signal or an SSB signal apparently has a wide enough spectrum so that it doesn't fall into the "cracks" in the display.

I have been using and enjoying KGKSDR and my RXTXv6.1 on both SSB and CW. Thanks, Duncan!

Lyle, K0LR

749. Re: [kgksdr] kgksdr some checkboxes - for what?

Yahoo group: kgksdr
Date: 2007-02-19 17:55:04 UTC
From: Duncan Munro
Topic: 745 Message: 749

ut1wpr wrote:
> Who can explain me purposes of two checkboxes on kgksdr panel?
> There are named CLIP and GATE.

Hi Vic,

CLIP is an speech processor like RF clipper. The audio signal is taken up to "RF", about 12kHz USB and clipped heavily. This is then low pass filtered and taken back down to audio.

Because of this there is a lot of extra gain and easy to get background noise on the transmission. GATE cuts out the audio when the input is low so that it is not transmitted.

73,

Duncan
M0KGK

750. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 17:59:12 UTC
From: Duncan Munro
Topic: 746 Message: 750

Dave wrote:
> I've noticed that KGKSDR's CPU usage seems to have increased lately.
> At 96KHz Rx on my 2.4 GHz Pentium 4 I've measured:
>
> Build 51: 62%
> Build 52: 62%
> Build 53: 62%
> Build 54: 79%
> Build 55: 63%
> Build 56: 74%
>
> Interesting is the drop for Build 55, but the measurements do seem to
> be repeatable. I'm a bit worried about the usage getting that high.
> Some other Rx programs run at half that usage very nicely.

Hi Dave,

There are no changes from build 51 to 56 which would increase or reduce CPU usage. The only thing that could potentially make a change is the HB9TLK loop.dll which introduces a small amount of additional overhead.

Also the CPU usage is not "CPU usage by KGKSDR" it's "CPU usage by everything on the system", so it can be affected by any other processes you have running.

73,

Duncan
M0KGK

751. Re: Spectrum display irregularites

Yahoo group: kgksdr
Date: 2007-02-19 17:57:23 UTC
From: kanewderfish
Topic: 748 Message: 751

Hi lyle,
Yes, I have noticed this as well. If I sweep back and forth
across one of the 'low spots', sometimes the amplitude will pop back
up. Not sure what this is about.
I have had a lot of trouble figuring out the proper settings for
my sound card (SB X-Fi Xtreme audio) in terms of the delayed sample
(left, right, none) and the correct channel for I and Q. I'm
thinking it >may< have something to do with this.

--- In kgksdr@yahoogroups.com, "Lyle Koehler, K0LR" <lyle@...> wrote:
>
> While checking the spectrum display calibration in KGKSDR against a
> signal generator, I noticed that the amplitude readout for
> steady-state signals can vary by as much as 30 dB, depending on the
> frequency. For example, using the "stock" 40m LO frequency
(7055.619
> in my case), a -60 dBm signal at 7.030 MHz shows up as -60 dB, but
a
> 7.030 MHz signal is displayed at -90 dB. If I tune to those
> frequencies, the audio levels and S meter readings are the same.
> Anyone else notice this, or is it unique to my sound card setup?
I'm
> using an Audigy 2NX for I/Q inputs and outputs; SB Live 24 for mike
> and speaker.
>
> This does not affect the usefulness of the spectrum display for
normal
> reception, since a keyed CW signal or an SSB signal apparently has
a
> wide enough spectrum so that it doesn't fall into the "cracks" in
the
> display.
>
> I have been using and enjoying KGKSDR and my RXTXv6.1 on both SSB
and
> CW. Thanks, Duncan!
>
> Lyle, K0LR
>

752. Input and output bars

Yahoo group: kgksdr
Date: 2007-02-19 18:05:56 UTC
From: kanewderfish
Topic: 752 Message: 752

Hi gang,
What do the input and output bars at the bottom of the application window indicate?

Thanks

Bob WB0POQ

753. Re: [kgksdr] Spectrum display irregularites

Yahoo group: kgksdr
Date: 2007-02-19 18:11:19 UTC
From: Duncan Munro
Topic: 748 Message: 753

Lyle Koehler, K0LR wrote:
> While checking the spectrum display calibration in KGKSDR against a
> signal generator, I noticed that the amplitude readout for
> steady-state signals can vary by as much as 30 dB, depending on the
> frequency. For example, using the "stock" 40m LO frequency (7055.619
> in my case), a -60 dBm signal at 7.030 MHz shows up as -60 dB, but a
> 7.030 MHz signal is displayed at -90 dB. If I tune to those
> frequencies, the audio levels and S meter readings are the same.
> Anyone else notice this, or is it unique to my sound card setup? I'm
> using an Audigy 2NX for I/Q inputs and outputs; SB Live 24 for mike
> and speaker.
>
> This does not affect the usefulness of the spectrum display for normal
> reception, since a keyed CW signal or an SSB signal apparently has a
> wide enough spectrum so that it doesn't fall into the "cracks" in the
> display.
>
> I have been using and enjoying KGKSDR and my RXTXv6.1 on both SSB and
> CW. Thanks, Duncan!

Hi Lyle,

This is one of the problems with FFT type displays, there are cracks between the bins!

Typically the software uses 4096 point FFT for 96kHz so that equates to 23Hz between bins. A pure tone generated by a signal generator can easily fall down the gap. The simple way is to use larger FFT blocks to get finer resolution, but this then takes longer (and more CPU) to process so I guess what we have is a tradeoff.

73,

Duncan
M0KGK

754. Re: [kgksdr] Input and output bars

Yahoo group: kgksdr
Date: 2007-02-19 18:20:02 UTC
From: Duncan Munro
Topic: 752 Message: 754

kanewderfish wrote:
> Hi gang,
> What do the input and output bars at the bottom of the application
> window indicate?

Hi Bob,

These are only present on the receiver and show how much audio input
(IQ) is buffered and how much output is buffered.

73,

Duncan
M0KGK

755. Re: Spectrum display irregularites

Yahoo group: kgksdr
Date: 2007-02-19 18:40:02 UTC
From: cesco12342000
Topic: 748 Message: 755

> A pure tone generated by a signal generator can
> easily fall down the gap.

Use a hanning window fft. The display will be
less sharp (blurred), but the readings are more
constant.

hanning window is something like a raised cosine
multiplied with the 4096 input values.

I have example code (in c++) if needed.

756. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 18:56:20 UTC
From: Russell Blair
Topic: 746 Message: 756

I downloaded the KGKSDR program and I don't have the horsepower to run it my CPU goes to 100% and thats after I have turned off all other programs that was running, Oh I did see that I would need 1Ghz or better and I dont, so with that said I will be looking for a some other program that I can use with my TXRXv6.1 when I get it complete. So I need some input from the group about other programs to use.

Oh, my PC has 250Meg of ram and 700Mhz CPU.

Tns Russell NC5O

```
========================================
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
========================================
```


```
_____________________________________________________________________________________
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http://advision.webevents.yahoo.com/mailbeta/features_spam.html
```

757. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 19:01:23 UTC
From: kanewderfish
Topic: 746 Message: 757

Hi Russell,
It won't do transmit, but "Rocky" seems to be pretty lean. See

http://www.dxatlas.com/Rocky/

--- In kgksdr@yahoogroups.com, Russell Blair <russell_blair86@...>
wrote:
>
> I downloaded the KGKSDR program and I don't have the
> horsepower to run it my CPU goes to 100% and thats
> after I have turned off all other programs that was
> running, Oh I did see that I would need 1Ghz or better
> and I dont, so with that said I will be looking for a
> some other program that I can use with my TXRXv6.1
> when I get it complete. So I need some input from the
> group about other programs to use.
>
> Oh, my PC has 250Meg of ram and 700Mhz CPU.
>
> Tns Russell NC5O
>
>
>
>
> ==
> Russell Blair
> QTH ========= Richardson Tx
> CALL ========= NC5O
> GRID ========= EM12px
> FH# ========== 300
> DOS# ========= 470
> ==
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>
>
>

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> Try the free Yahoo! Mail Beta.
> http://advision.webevents.yahoo.com/mailbeta/features_spam.html
>

758. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 19:27:03 UTC
From: tormod_johansen
Topic: 746 Message: 758

--- In kgksdr@yahoogroups.com, Russell Blair <russell_blair86@...> wrote:
>
> I downloaded the KGKSDR program and I don't have the
> horsepower to run it my CPU goes to 100% and thats
> after I have turned off all other programs that was
> running, Oh I did see that I would need 1Ghz or better
> and I dont, so with that said I will be looking for a
> some other program that I can use with my TXRXv6.1
> when I get it complete. So I need some input from the
> group about other programs to use.
>
> Oh, my PC has 250Meg of ram and 700Mhz CPU.
>
> Tns Russell NC5O
>
>
>
>
> ==
> Russell Blair
> QTH ========= Richardson Tx
> CALL ========= NC5O
> GRID ========= EM12px
> FH# ========== 300
> DOS# ========= 470
> ==
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>

> Sucker-punch spam with award-winning protection.
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> http://advision.webevents.yahoo.com/mailbeta/features_spam.html
>
When I changed Soundcard in my computer my CPU usage went down from
70-85% to 50-65%.
The new soundcard have ASIO drivers, and I don't have to use the
'delay right 1 sample" option.

The SB Live 24bit need more CPU power than the SB X-Fi when running
KGKSDR.

LA4ELA
Tormod.

759. Re: [kgksdr] Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 19:28:57 UTC
From: Russell Blair
Topic: 746 Message: 759

Thanks For your input I will go out and get it now.

73 Russell
--- kanewderfish <kanewderfish@...> wrote:

> Hi Russell,
> It won't do transmit, but "Rocky" seems to be
> pretty lean. See
>
> http://www.dxatlas.com/Rocky/
>
> --- In kgksdr@yahoogroups.com, Russell Blair
> <russell_blair86@...>
> wrote:
> >
> > I downloaded the KGKSDR program and I don't have
> the
> > horsepower to run it my CPU goes to 100% and thats
> > after I have turned off all other programs that
> was
> > running, Oh I did see that I would need 1Ghz or
> better
> > and I dont, so with that said I will be looking
> for a
> > some other program that I can use with my TXRXv6.1
> > when I get it complete. So I need some input from
> the
> > group about other programs to use.
> >
> > Oh, my PC has 250Meg of ram and 700Mhz CPU.
> >
> > Tns Russell NC5O
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> > Russell Blair
> > QTH ========= Richardson Tx
> > CALL ========= NC5O
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> > FH# ========== 300
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> _____
> > Sucker-punch spam with award-winning protection.
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>
http://advision.webevents.yahoo.com/mailbeta/features_spam.html
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>

==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

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http://tools.search.yahoo.com/toolbar/features/mail/

760. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 19:46:26 UTC
From: Duncan Munro
Topic: 746 Message: 760

Russell Blair wrote:
> I downloaded the KGKSDR program and I don't have the
> horsepower to run it my CPU goes to 100% and thats
> after I have turned off all other programs that was
> running, Oh I did see that I would need 1Ghz or better
> and I dont, so with that said I will be looking for a
> some other program that I can use with my TXRXv6.1
> when I get it complete. So I need some input from the
> group about other programs to use.

The other TX software (assuming you want TX) is PowerSDR. I don't know the minimum system requirements for this but it's probably in the documentation or on the website somewhere.

You might also want to try asking in the Softrock40 group which is probably a better group to ask general questions about SDR software.

73,

Duncan
M0KGK

761. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 20:44:47 UTC
From: Russell Blair
Topic: 746 Message: 761

Tnx Duncan, I will do a post over there as well.

Thanks Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > I downloaded the KGKSDR program and I don't have
> the
> > horsepower to run it my CPU goes to 100% and thats
> > after I have turned off all other programs that
> was
> > running, Oh I did see that I would need 1Ghz or
> better
> > and I dont, so with that said I will be looking
> for a
> > some other program that I can use with my TXRXv6.1
> > when I get it complete. So I need some input from
> the
> > group about other programs to use.
>
> The other TX software (assuming you want TX) is
> PowerSDR. I don't know
> the minimum system requirements for this but it's
> probably in the
> documentation or on the website somewhere.
>
> You might also want to try asking in the Softrock40
> group which is
> probably a better group to ask general questions
> about SDR software.
>
> 73,
>
> Duncan
> M0KGK
>
>

==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

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http://answers.yahoo.com/dir/?link=list&sid=396546091

762. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-19 22:54:59 UTC
From: ZPO
Topic: 746 Message: 762

Russell,

There are some good articles in the FlexRadio KB about optimizing your computer for SDR work. The instructions are general enough that they should yield better performance with SDR implementations other than PowerSDR.

It is amazing how much excess crud you can have in the average Windows system. By setting up a unique profile as described you may find your current system is adequate.

http://kb.flex-radio.com/article.aspx?id=10133

http://kb.flex-radio.com/article.aspx?id=10307

73 N5VFF/YI9VFF - Brian

On 2/19/07, Russell Blair <russell_blair86@...> wrote:
> Tnx Duncan, I will do a post over there as well.
>
> Thanks Russell
> --- Duncan Munro <m0kgk@...> wrote:
>
> > Russell Blair wrote:
> > > I downloaded the KGKSDR program and I don't have
> > the
> > > horsepower to run it my CPU goes to 100% and thats
> > > after I have turned off all other programs that
> > was
> > > running, Oh I did see that I would need 1Ghz or
> > better
> > > and I dont, so with that said I will be looking
> > for a
> > > some other program that I can use with my TXRXv6.1
> > > when I get it complete. So I need some input from
> > the
> > > group about other programs to use.
> >
> > The other TX software (assuming you want TX) is
> > PowerSDR. I don't know
> > the minimum system requirements for this but it's
> > probably in the
> > documentation or on the website somewhere.
> >
> > You might also want to try asking in the Softrock40
> > group which is

> > probably a better group to ask general questions
> > about SDR software.
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
> >
>
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> ==
> Russell Blair
> QTH ========= Richardson Tx
> CALL ========= NC5O
> GRID ========= EM12px
> FH# ========== 300
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> Need Mail bonding?
> Go to the Yahoo! Mail Q&A for great tips from Yahoo! Answers users.
> http://answers.yahoo.com/dir/?link=list&sid=396546091
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763. Re: [kgksdr] CPU Usage

Yahoo group: kgksdr
Date: 2007-02-20 00:43:54 UTC
From: Russell Blair
Topic: 746 Message: 763

Thanks Brain, I will give it a look

Tnx Russell
--- ZPO <geekdownrange@...> wrote:

> Russell,
>
> There are some good articles in the FlexRadio KB
> about optimizing your
> computer for SDR work. The instructions are general
> enough that they
> should yield better performance with SDR
> implementations other than
> PowerSDR.
>
> It is amazing how much excess crud you can have in
> the average Windows
> system. By setting up a unique profile as described
> you may find your
> current system is adequate.
>
> http://kb.flex-radio.com/article.aspx?id=10133
>
> http://kb.flex-radio.com/article.aspx?id=10307
>
> 73 N5VFF/YI9VFF - Brian
>
>
> On 2/19/07, Russell Blair
> <russell_blair86@...> wrote:
> > Tnx Duncan, I will do a post over there as well.
> >
> > Thanks Russell
> > --- Duncan Munro <m0kgk@...> wrote:
> >
> > > Russell Blair wrote:
> > > > I downloaded the KGKSDR program and I don't
> have
> > > the
> > > > horsepower to run it my CPU goes to 100% and
> thats
> > > > after I have turned off all other programs
> that
> > > was
> > > > running, Oh I did see that I would need 1Ghz

> or
> > > better
> > > > and I dont, so with that said I will be
> looking
> > > for a
> > > > some other program that I can use with my
> TXRXv6.1
> > > > when I get it complete. So I need some input
> from
> > > the
> > > > group about other programs to use.
> > >
> > > The other TX software (assuming you want TX) is
> > > PowerSDR. I don't know
> > > the minimum system requirements for this but
> it's
> > > probably in the
> > > documentation or on the website somewhere.
> > >
> > > You might also want to try asking in the
> Softrock40
> > > group which is
> > > probably a better group to ask general questions
> > > about SDR software.
> > >
> > > 73,
> > >
> > > Duncan
> > > M0KGK
> > >
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> > ==========
> > Russell Blair
> > QTH ========= Richardson Tx
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> > Need Mail bonding?
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==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

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http://farechase.yahoo.com/promo-generic-14795097

764. Re: kgksdr some checkboxes - for what?

Yahoo group: kgksdr
Date: 2007-02-20 05:33:00 UTC
From: ut1wpr
Topic: 745 Message: 764

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> ut1wpr wrote:
> > Who can explain me purposes of two checkboxes on kgksdr panel?
> > There are named CLIP and GATE.
>
> Hi Vic,
>
> CLIP is an speech processor like RF clipper. The audio signal is taken
> up to "RF", about 12kHz USB and clipped heavily. This is then low pass
> filtered and taken back down to audio.
>
> Because of this there is a lot of extra gain and easy to get background
> noise on the transmission. GATE cuts out the audio when the input is
> low so that it is not transmitted.
>
> 73,
>
> Duncan
> M0KGK
>
Thank you Dunkan. Also thanks for last version .56 - work nice in PSK
for me. Made several QSO with russian stations from 6 region (abt 1200
- 1400 kmtrs) very interesting. Will look forward for next and next
versions. The program becomes better from day to day..
73! de Vic/ut1wpr

765. WinPSK_V2.09 is not avairable for KGKSDR Transceiver?

Yahoo group: kgksdr
Date: 2007-02-20 11:25:11 UTC
From: qrper723
Topic: 765 Message: 765

Hi Duncan,

I did fine operation with WinPSK V2.13-English Version.
Next I tried to activate WinPSK V2.09 with Japanese Version today.
But it did not boot...Maybe something is different between them.

If it could be possible I will be happy because in JA many HAM
uses Japanese in PSK31 mode.

ja9mat hidehiko.

766. Re: [kgksdr] WinPSK_V2.09 is not avairable for KGKSDR Transceiver?

Yahoo group: kgksdr
Date: 2007-02-20 11:32:09 UTC
From: Duncan Munro
Topic: 765 Message: 766

qrper723 wrote:
> Hi Duncan,
>
> I did fine operation with WinPSK V2.13-English Version.
> Next I tried to activate WinPSK V2.09 with Japanese Version today.
> But it did not boot...Maybe something is different between them.
>
> If it could be possible I will be happy because in JA many HAM
> uses Japanese in PSK31 mode.

Hi Hide,

I think that Cesco has re-written the WinPSK dll to work with loop.dll
so it might not be the same as the normal download (English or Japanese)
for WinPSK.

73,

Duncan
M0KGK

767. Re: WinPSK_V2.09 is not avairable for KGKSDR Transceiver?

Yahoo group: kgksdr
Date: 2007-02-20 12:12:03 UTC
From: qrper723
Topic: 765 Message: 767

Duncan,

Thanks for information.
OK I continue English PSK QSO.
It's no problem.

ja9mat hidehiko.

> I think that Cesco has re-written the WinPSK dll to work with loop.dll
> so it might not be the same as the normal download (English or
Japanese)
> for WinPSK.

768. Re: WinPSK_V2.09 is not avairable for KGKSDR Transceiver?

Yahoo group: kgksdr
Date: 2007-02-20 17:02:36 UTC
From: cesco12342000
Topic: 765 Message: 768

Hi hidehiko,

can you give me a link to the version you are using?
I need the source package of the pskcore.dll version
you are using to patch it.

73, Cesco

769. Cracking audio from KGKSDR

Yahoo group: kgksdr
Date: 2007-02-20 20:49:28 UTC
From: Marco IK1ODO
Topic: 769 Message: 769

At 13.36 18/02/2007, you wrote:

>A minor update has been released to cover off a couple of problems
>with loading the DLLs and error messages resulting from failed loads.
>
><http://www.m0kgk.co.uk/sdr/download.php>http://www.m0kgk.co.uk/sdr/download.php

Hello Duncan,

I'm trying to use KGKSDR to work in PSK31.

I have a 3GHz Athlon PC, 512MB RAM, and two audio interfaces: an SB
Live! 24bit USB and an Audiophile 192 internal.
Using both interfaces at 48 or 96kHz sampling rate I hear a crackling
noise, expecially listening at faint input signals. The noise is
almost overcome by strong signals.
I have no problems running WINRAD on the same hardware, either using
ASIO or WMME drivers. Any idea, or tests to do?

Two sample audio files and a screenshot referring to the second file
are under IK!ODO in the files section. The problem gets worse
operating with narrow CW filters - I find the 100Hz filter ideal for PSK31.

73 - Marco IK1ODO

770. Re: [kgksdr] Cracking audio from KGKSDR

Yahoo group: kgksdr
Date: 2007-02-20 21:08:04 UTC
From: Duncan Munro
Topic: 769 Message: 770

Marco IK1ODO wrote:

> I have a 3GHz Athlon PC, 512MB RAM, and two audio interfaces: an SB
> Live! 24bit USB and an Audiophile 192 internal.
> Using both interfaces at 48 or 96kHz sampling rate I hear a crackling
> noise, expecially listening at faint input signals. The noise is almost
> overcome by strong signals.
> I have no problems running WINRAD on the same hardware, either using
> ASIO or WMME drivers. Any idea, or tests to do?
>
> Two sample audio files and a screenshot referring to the second file are
> under IK!ODO in the files section. The problem gets worse operating with
> narrow CW filters - I find the 100Hz filter ideal for PSK31.

Hi Marco,

Yes, these are familiar sounds to me unfortunately. The grating noise is caused by the type of filters I use within KGKSDR and you can really make it bad by putting a signal just on the edge of a filter.

This is a known problem within KGKSDR and something I need to sort out. At the moment it's annoying but not as annoying as the general ASIO situation!

When I've got rid of ASIO, pls remind me about the filters and I will fix them up.

73,

Duncan
M0KGK

771. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-20 21:30:01 UTC
From: Dave
Topic: 746 Message: 771

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> There are no changes from build 51 to 56 which would increase or
> reduce CPU usage. The only thing that could potentially make a
> change is the HB9TLK loop.dll which introduces a small amount of
> additional overhead.

I thought that was probably the case, but I thought loop.dll was introduced after Build 54, so that would not explain the usage I saw with Build 54.

To get a better average of CPU usage, I view it with Windows Task Manager. I have copies of most of the KGKSDR builds since Build 43 and I can quickly load any one of them. I think I have sufficient memory in the system to avoid paging, so it does seem that the difference is somehow due to the KGKSDR app. I've seen cases where making a seemingly minor change can have a big effect on usage by changing the word alignment of some usage-critical part of the code, for example.

I just wanted to raise a flag in case there really was usage creep that was going unnoticed. I know that you are considering changes that would improve CPU usage in the future, but I didn't want to see people become alienated by the app needing more CPU than an otherwise reasonable machine can provide.

Dave, WA3OFF

772. Re: WinPSK_V2.09 is not avairable for KGKSDR Transceiver?

Yahoo group: kgksdr
Date: 2007-02-21 01:22:34 UTC
From: qrper723
Topic: 765 Message: 772

Hi Cesco,

Thanks for your kindness.
The Japanized version is WinPSK-v2.09-J.

¡¡¡¡-> http://hp.vector.co.jp/authors/VA002912/winpskj2.html

Sorry in Japanese website.

And the source of .dll is not avairable on his website.

I will ask the author and get the source of .dll.
The result will tell you again.
Thanks again!

ja9mat hidehiko.

--- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@...> wrote:
>
> Hi hidehiko,
>
> can you give me a link to the version you are using?
> I need the source package of the pskcore.dll version
> you are using to patch it.
>
> 73, Cesco

773. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-21 03:45:17 UTC
From: n3hkn
Topic: 746 Message: 773

I am seeing <45% CPU with build 56, WinPskSE. 2ghz AMD, 1gb memory, 128mb video card. Only oddity is system cache is set as precedence over programs. I am always trying performance tweaks since I play with Flight Simulator which takes 100% CPU. In xmit mode same CPU usage. I have run build 33 on a Dell 500mhz PC and it takes 100% with an occasional breakup. No optimizing it since its function is a file server.

Looking at Task Manager KGKSDR seems to take from 25% to 30% with Task Manager and WinPskSE some of the cycles. Kernel absorbs the remainder. I see no paging activity

-- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> > There are no changes from build 51 to 56 which would increase or
> > reduce CPU usage. The only thing that could potentially make a
> > change is the HB9TLK loop.dll which introduces a small amount of
> > additional overhead.
>
> I thought that was probably the case, but I thought loop.dll was
> introduced after Build 54, so that would not explain the usage I saw
> with Build 54.
>
> To get a better average of CPU usage, I view it with Windows Task
> Manager. I have copies of most of the KGKSDR builds since Build 43
> and I can quickly load any one of them. I think I have sufficient
> memory in the system to avoid paging, so it does seem that the
> difference is somehow due to the KGKSDR app. I've seen cases where
> making a seemingly minor change can have a big effect on usage by
> changing the word alignment of some usage-critical part of the code,
> for example.
>
> I just wanted to raise a flag in case there really was usage creep
> that was going unnoticed. I know that you are considering changes
> that would improve CPU usage in the future, but I didn't want to see
> people become alienated by the app needing more CPU than an
otherwise
> reasonable machine can provide.
>
> Dave, WA3OFF
>

774. Re: CPU Usage

Yahoo group: kgksdr
Date: 2007-02-21 03:57:23 UTC
From: cesco12342000
Topic: 746 Message: 774

cpu usage increases quite a bit when running the soundcard at 96k. I cant test 192k here, but at 96k, kgk-trx and winpsk are at 25% to 29%. At 48k it's around 18%. Intel core-duo pc from ALDI, the food supermarket chain, with on-board realtek soundcard.

775. ver 1.1.056 tx difficulties

Yahoo group: kgksdr
Date: 2007-02-22 02:35:06 UTC
From: Richard Stasiak
Topic: 775 Message: 775

Hello Duncan and the group.

I am using the above version and a 40 m rxtxv6.1. I have found on two different computers that I have difficulties getting a tx signal out on cw after starting up the software. (the only mode I have tried).

After initial turn on I cannot get a signal out on tune or with input from a keyer. If I then go to the tx manual calibrate window and select the transmit box transmit no signal is transmitted until I change the frequency with the slider. Suddenly a signal pops out and I can monitor it on another rig. Then if I return to the main operating window the software seems to operate normally and I can then get a signal out with tune or from a keyer.

Any comments or thoughts on this.

73

Rick ve3mm

776. Re: [kgksdr] ver 1.1.056 tx difficulties

Yahoo group: kgksdr
Date: 2007-02-22 07:38:45 UTC
From: Duncan Munro
Topic: 775 Message: 776

Richard Stasiak wrote:
> Hello Duncan and the group.
>
> I am using the above version and a 40 m rxtxv6.1. I have found on
> two different computers that I have difficulties getting a tx signal
> out on cw after starting up the software. (the only mode I have tried).
>
> After initial turn on I cannot get a signal out on tune or with input
> from a keyer. If I then go to the tx manual calibrate window and
> select the transmit box transmit no signal is transmitted until I
> change the frequency with the slider. Suddenly a signal pops out and
> I can monitor it on another rig. Then if I return to the main
> operating window the software seems to operate normally and I can
> then get a signal out with tune or from a keyer.
>
> Any comments or thoughts on this.

Hi Rick, are you trying to transmit at the centre frequency of the
Softrock (i.e. zero hertz offset)???

There is a frequency in the middle of the spectrum where you cannot TX
on CW because it would mean sending DC out of the soundcard which they
won't do....

73,

Duncan
M0KGK

777. Re: [kgksdr] ver 1.1.056 tx difficulties

Yahoo group: kgksdr
Date: 2007-02-23 01:08:50 UTC
From: Richard Stasiak
Topic: 775 Message: 777

Thanks for the tip Duncan, this must of been it.
BTW, thanks for all of your efforts in developing this software and
making it available to the community.

73

Rick ve3mm

On 22-Feb-07, at 2:38 AM, Duncan Munro wrote:

> Richard Stasiak wrote:
> > Hello Duncan and the group.
> >
> > I am using the above version and a 40 m rxtxv6.1. I have found on
> > two different computers that I have difficulties getting a tx signal
> > out on cw after starting up the software. (the only mode I have
> tried).
> >
> > After initial turn on I cannot get a signal out on tune or with
> input
> > from a keyer. If I then go to the tx manual calibrate window and
> > select the transmit box transmit no signal is transmitted until I
> > change the frequency with the slider. Suddenly a signal pops out and
> > I can monitor it on another rig. Then if I return to the main
> > operating window the software seems to operate normally and I can
> > then get a signal out with tune or from a keyer.
> >
> > Any comments or thoughts on this.
>
> Hi Rick, are you trying to transmit at the centre frequency of the
> Softrock (i.e. zero hertz offset)???
>
> There is a frequency in the middle of the spectrum where you cannot TX
> on CW because it would mean sending DC out of the soundcard which they
> won't do....
>
> 73,
>
> Duncan
> M0KGK
>
>
>

778. RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-23 22:41:29 UTC
From: Richard Stasiak
Topic: 778 Message: 778

Hello to both groups;

After a few days spent in debugging things (especially some of my cabling and software setup) I made my first contacts with the rxtxv6.1 and KGKSDR.

I spent the afternoon filling my logbook with cw qso's on 40 m cw. (7015 crystal) Lots of fun at 1 watt.

The rig connections and setup is exactly as the one drawn by G0BBL as is shown in the KGKSDR help file. An external keyer with it's own sidetone does the keying.
The sound card is a Delta 44 installed in a 3.2 Ghz p4 desktop. The transition from rx to tx is really smooth, nice work in hardware and software, gentlemen. It's nice not to have any relays clunking away. The rx is pleasant to listen to. Sigs were coming in from Europe.

In this exercise, I've to the conclusion that my Thinkpad laptop with its internal sound card is really not up to snuff for transmitting when compared to the computer configuration described above. The balance between I and Q channels in the internal sound card is terrible and I was only able to get 20 db or so of image cancellation on tx.

Next step..... more power output.

73

Rick ve3mm

779. Re: [kgksdr] RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-23 23:14:18 UTC
From: Dave Mynatt
Topic: 778 Message: 779

Howdy! What antenna are you using? I live in an apartment in Pueblo, Colorado, and probably won't be able to have a long-wire unless I go on the road or do a kite.

Dave
=====

----- Original Message -----
From: Richard Stasiak
To: softrock40@yahoogroups.com ; kgksdr@yahoogroups.com
Sent: Friday, February 23, 2007 3:41 PM
Subject: [kgksdr] RXTXv6.1 + KGKSDR = cw fun

Hello to both groups;

After a few days spent in debugging things (especially some of my cabling and software setup) I made my first contacts with the rxtxv6.1 and KGKSDR.

I spent the afternoon filling my logbook with cw qso's on 40 m cw. (7015 crystal) Lots of fun at 1 watt.

The rig connections and setup is exactly as the one drawn by G0BBL as is shown in the KGKSDR help file. An external keyer with it's own sidetone does the keying.
The sound card is a Delta 44 installed in a 3.2 Ghz p4 desktop. The transition from rx to tx is really smooth, nice work in hardware and software, gentlemen. It's nice not to have any relays clunking away. The rx is pleasant to listen to. Sigs were coming in from Europe.

In this exercise, I've to the conclusion that my Thinkpad laptop with its internal sound card is really not up to snuff for transmitting when compared to the computer configuration described above. The balance between I and Q channels in the internal sound card is terrible and I was only able to get 20 db or so of image cancellation on tx.

Next step..... more power output.

73

Rick ve3mm

780. Re: [kgksdr] RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-24 00:01:38 UTC
From: Richard Stasiak
Topic: 778 Message: 780

Hi Dave

Ah yes, the antenna.....2 element 40 M yagi :-)

BTW, I worked my first european (9A9A) this afternoon as well.
Pretty good for 1 watt.

Rick ve3mm

On 23-Feb-07, at 6:14 PM, Dave Mynatt wrote:

>
> Howdy! What antenna are you using? I live in an apartment in
> Pueblo, Colorado, and probably won't be able to have a long-wire
> unless I go on the road or do a kite.
>
> Dave
> =====
>
>
>
>
> ----- Original Message -----
> From: Richard Stasiak
> To: softrock40@yahoogroups.com ; kgksdr@yahoogroups.com
> Sent: Friday, February 23, 2007 3:41 PM
> Subject: [kgksdr] RXTXv6.1 + KGKSDR = cw fun
>
> Hello to both groups;
>
> After a few days spent in debugging things (especially some of my
> cabling and software setup) I made my first contacts with the
> rxtxv6.1 and KGKSDR.
>
> I spent the afternoon filling my logbook with cw qso's on 40 m cw.
> (7015 crystal) Lots of fun at 1 watt.
>
> The rig connections and setup is exactly as the one drawn by G0BBL as
> is shown in the KGKSDR help file. An external keyer with it's own
> sidetone does the keying.
> The sound card is a Delta 44 installed in a 3.2 Ghz p4 desktop. The
> transition from rx to tx is really smooth, nice work in hardware and
> software, gentlemen. It's nice not to have any relays clunking away.
> The rx is pleasant to listen to. Sigs were coming in from Europe.
>
> In this exercise, I've to the conclusion that my Thinkpad laptop with

> its internal sound card is really not up to snuff for transmitting
> when compared to the computer configuration described above. The
> balance between I and Q channels in the internal sound card is
> terrible and I was only able to get 20 db or so of image cancellation
> on tx.
>
> Next step..... more power output.
>
> 73
>
> Rick ve3mm
>
>
>
>

781. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-24 03:00:09 UTC
From: jabauzit
Topic: 778 Message: 781

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Howdy! What antenna are you using? I live in an apartment in
Pueblo, Colorado, and probably won't be able to have a long-wire
unless I go on the road or do a kite.
>

Hi Dave,

Here using a homebrew magnetic loop - 2 m diameter - outside. Can be
used inside: not much risk of radiation exposure with this much power.

Jean-Claude PJ2BVU

782. Hold time

Yahoo group: kgksdr
Date: 2007-02-24 03:20:18 UTC
From: kanewderfish
Topic: 782 Message: 782

Hi gang,
What is the "Hold time (0=off)" setting on the display tab for?
Thanks!

Bob WB0POQ

783. Re: Hold time

Yahoo group: kgksdr
Date: 2007-02-24 05:20:01 UTC
From: jabauzit
Topic: 782 Message: 783

```
--- In kgksdr@yahoogroups.com, "kanewderfish" <kanewderfish@...> wrote:
>
> Hi gang,
> What is the "Hold time (0=off)" setting on the display tab for?
> Thanks!
>

Easy, try it and see for yourself.

Jean-Claude PJ2BVU
```

784. Re: [kgksdr] Hold time

Yahoo group: kgksdr
Date: 2007-02-24 09:01:31 UTC
From: Duncan Munro
Topic: 782 Message: 784

kanewderfish wrote:
> Hi gang,
> What is the "Hold time (0=off)" setting on the display tab for?

Hi Bob,

It's for the spectrum display and leaves a ghost image of the peaks on the screen. They drop off after x seconds where x is the number you put in the setup.

73,

Duncan
M0KGK

785. rxtx6.1 cw help need

Yahoo group: kgksdr
Date: 2007-02-24 10:14:41 UTC
From: ut1wpr
Topic: 785 Message: 785

Comp: C-900/256ram, Audigy-SE + AC-97 (very poor config, I know..)
Made many QSOes on SSB and BPSK. But on CW have a problem.
My external keyer generate "dots" with equal intervals and with the same durations. I can see it on a screen of oscilloscope as ideal meander.
Then I move my probe on input of txrx (cw-signal from soundcard). I can see very nice form of signal envelope - soft attack and relatively long desay. As it look in illustrated books.. :-) But durations of dots is.... differents! Several dots looks like identical, then suddenly several dots becomes longer approx. a one and half, and then againe becomes to be the equal duration. So working on CW is unable for me.
Who can say anything in help?
73! de Vic/ut1wpr

786. Re: [kgksdr] rxtx6.1 cw help need

Yahoo group: kgksdr
Date: 2007-02-24 12:52:03 UTC
From: Duncan Munro
Topic: 785 Message: 786

ut1wpr wrote:
> Comp: C-900/256ram, Audigy-SE + AC-97 (very poor config, I know..)
> Made many QSOes on SSB and BPSK. But on CW have a problem.
> My external keyer generate "dots" with equal intervals and with the
> same durations. I can see it on a screen of oscilloscope as ideal
> meander.
> Then I move my probe on input of txrx (cw-signal from soundcard). I
> can see very nice form of signal envelope - soft attack and relatively
> long desay. As it look in illustrated books.. :-) But durations of
> dots is.... differents! Several dots looks like identical, then
> suddenly several dots becomes longer approx. a one and half, and then
> againe becomes to be the equal duration. So working on CW is unable
> for me.
> Who can say anything in help?

What speed is the keyer set to?

73,

Duncan
M0KGK

787. Re: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-24 16:59:09 UTC
From: Dave Mynatt
Topic: 778 Message: 787

Neat. Thanks for the idea. Are there 'plans' or construction scenarios someplace? I see so many neat antennas and some of them cost an arm'n'leg, but I also hear folks doing CW on small stuff. 400mw isn't much? How do you tune it; construction-tuned or tuner?

Dave
=====

----- Original Message -----
From: jabauzit
To: kgksdr@yahoogroups.com
Sent: Friday, February 23, 2007 8:00 PM
Subject: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Howdy! What antenna are you using? I live in an apartment in
Pueblo, Colorado, and probably won't be able to have a long-wire
unless I go on the road or do a kite.
>

Hi Dave,

Here using a homebrew magnetic loop - 2 m diameter - outside. Can be
used inside: not much risk of radiation exposure with this much power.

Jean-Claude PJ2BVU

788. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-24 20:11:51 UTC
From: jabauzit
Topic: 778 Message: 788

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Neat. Thanks for the idea. Are there 'plans' or construction scenarios someplace? I see so many neat antennas and some of them cost an arm'n'leg, but I also hear folks doing CW on small stuff. 400mw isn't much? How do you tune it; construction-tuned or tuner?
>

Hi Dave,

Google "magnetic loop" and you will find a lot of information. There are several neat programs to calculate the parameters of the loop. Look for:
loopcalc, magloop4, rjeloop1, loopabxe. They give similar results and are very accurate. The only expensive item - if you don't have it in your junk box - is the variable capacitor which must be a butterfly or a split stator, a vacuum variable can also be used but is in the arm'n'leg range.
You do not use a tuner, you tune the antenna. I use a DC motor with demultiplication - 2 rpm - and it is very sharp tuning.
I was surprised on receive as I can see the whole 48 kHz without tuning, on TX I have to retune for the slightest frequency change, a real pain.
In my Beta RXTX I used a Motorola 2N3866 and get 750mW out. Curacao is a fantastic place for radio and I am amazed at what I achieved. The best tools for making contacts is the spectrum display: work only the huge signals and try to see when a new signal pops up on the band in order to rush to work him. Once too many stations are calling and especially when the station is spotted you can forget about it.
With a little more power the spectrum display would be fantastic to work a pile up: you can see the DX, you can see the pileup, you can see which station he is answering, you can also see if there are "holes" between the stations. A good way to make contacts is to work a contest: real contest stations have good antennas and good ops, they will do anything to get a point and will try hard to copy you. Outside contests some stations try hard but some do not bother too much.
I also started a web site which is "under construction", the magnetic loop page has only pictures for the moment:
http://www.geocities.com/jabauzit/Magnetic_Loop.html

And thanks again to Duncan for KGKSDR, his program is a work in progress but what he has implemented so far makes it a fantastic program.

73 de Jean-Claude PJ2BVU

789. Re: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-24 21:03:22 UTC
From: Dave Mynatt
Topic: 778 Message: 789

Hi again- I went to the various pages and looked at the calculators. I must have mixed up the easy part, cause when using Loopcalc the diameter was 39 feet... no way given the picture of your design. I also looked at some butterfly caps, and the price range wasn't all that bad -$8.00 for a small one.

So, I'm back to looking again at the calculator. Did you use loopcalc ?

Dave
=====

----- Original Message -----
From: jabauzit
To: kgksdr@yahoogroups.com
Sent: Saturday, February 24, 2007 1:11 PM
Subject: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Neat. Thanks for the idea. Are there 'plans' or construction scenarios someplace? I see so many neat antennas and some of them cost an arm'n'leg, but I also hear folks doing CW on small stuff. 400mw isn't much? How do you tune it; construction-tuned or tuner?
>

Hi Dave,

Google "magnetic loop" and you will find a lot of information. There are several neat programs to calculate the parameters of the loop.
Look for:
loopcalc, magloop4, rjeloop1, loopabxe. They give similar results and are very accurate. The only expensive item - if you don't have it in your junk box - is the variable capacitor which must be a butterfly or a split stator, a vacuum variable can also be used but is in the arm'n'leg range.
You do not use a tuner, you tune the antenna. I use a DC motor with demultiplication - 2 rpm - and it is very sharp tuning.
I was surprised on receive as I can see the whole 48 kHz without tuning, on TX I have to retune for the slightest frequency change, a real pain.
In my Beta RXTX I used a Motorola 2N3866 and get 750mW out. Curacao is a fantastic place for radio and I am amazed at what I achieved. The best tools for making contacts is the spectrum display: work only the huge signals and try to see when a new signal pops up on the band in order to rush to work him. Once too many stations are calling and especially when the station is spotted you can forget about it.
With a little more power the spectrum display would be fantastic to

work a pile up: you can see the DX, you can see the pileup, you can see which station he is answering, you can also see if there are "holes" between the stations. A good way to make contacts is to work a contest: real contest stations have good antennas and good ops, they will do anything to get a point and will try hard to copy you. Outside contests some stations try hard but some do not bother too much.
I also started a web site which is "under construction", the magnetic loop page has only pictures for the moment:
http://www.geocities.com/jabauzit/Magnetic_Loop.html

And thanks again to Duncan for KGKSDR, his program is a work in progress but what he has implemented so far makes it a fantastic program.

73 de Jean-Claude PJ2BVU

790. Re: rxtx6.1 cw help need

Yahoo group: kgksdr
Date: 2007-02-24 22:03:33 UTC
From: ut1wpr
Topic: 785 Message: 790

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> What speed is the keyer set to?
>
Hi, Dunkan!
Not so high. Abt 28-32 wpm. My usualy speed..
73!
de Vic/ut1wpr

791. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 00:31:51 UTC
From: jabauzit
Topic: 778 Message: 791

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Hi again- I went to the various pages and looked at the calculators. I must have mixed up the easy part, cause when using Loopcalc the diameter was 39 feet... no way given the picture of your design. I also looked at some butterfly caps, and the price range wasn't all that bad -$8.00 for a small one.
>

Hi Dave,

I used all the programs mentioned and they agree, the only real difference is in the variable cap voltage, one gives a much high value. Pay attention to the voltage, these loops give a very high voltage. Mine won't do more than 20W.
Tonight the UBA contest is on, hard to work with all these stations but so far managed 2 new ones OM and LY, trying hard on LZ and OK but no luck so far.

Jean-Claude PJ2BVU

792. Re: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 00:46:40 UTC
From: Dave Mynatt
Topic: 778 Message: 792

Best of luck! Hopefully all will DX okay.

Also been looking at the MFJ-1788 but it is expensive!

Dave
=====
----- Original Message -----
From: jabauzit
To: kgksdr@yahoogroups.com
Sent: Saturday, February 24, 2007 5:31 PM
Subject: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Hi again- I went to the various pages and looked at the
calculators. I must have mixed up the easy part, cause when using
Loopcalc the diameter was 39 feet... no way given the picture of your
design. I also looked at some butterfly caps, and the price range
wasn't all that bad -$8.00 for a small one.
>

Hi Dave,

I used all the programs mentioned and they agree, the only real
difference is in the variable cap voltage, one gives a much high
value. Pay attention to the voltage, these loops give a very high
voltage. Mine won't do more than 20W.
Tonight the UBA contest is on, hard to work with all these stations
but so far managed 2 new ones OM and LY, trying hard on LZ and OK but
no luck so far.

Jean-Claude PJ2BVU

793. Re: [kgksdr] Re: rxtx6.1 cw help need

Yahoo group: kgksdr
Date: 2007-02-25 00:52:57 UTC
From: Duncan Munro
Topic: 785 Message: 793

ut1wpr wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>> What speed is the keyer set to?
>>
> Hi, Dunkan!
> Not so high. Abt 28-32 wpm. My usualy speed..

Hi Vic, I found KGKSDR was good up to about 30WPM with a machine that met the spec (1.8-2.5GHz). I tried 40-50WPM on the 2.6GHz and 3.5GHz machines here and it really did not like it....

I saw from an earlier post that your machine is 900MHz, you could probably get away with 30WPM on air but it will look bad on the scope. It will, however, sound OK to most people.

Probably best to stick it out, the only surefire way to deal with zippy CW is to have dedicated harware - I don't think a Windows PC (or Linux for that matter) will hack it. :-(

73,

Duncan
M0KGK

794. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 01:19:30 UTC
From: jabauzit
Topic: 778 Message: 794

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Best of luck! Hopefully all will DX okay.
>
> Also been looking at the MFJ-1788 but it is expensive!
>
Hi Dave,

Have a look at MFJ-932, MFJ-933 and MFJ-935B. They are the tuning part
of the loop, you have to provide the loop - or buy from MFJ.

Jean-Claude PJ2BVU

795. Re: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 04:00:14 UTC
From: Dave Mynatt
Topic: 778 Message: 795

Claude- If I read it right, I'll need the MFJ-932 for 40m rig and about 35 feet of wire; yes? Will it operate okay with a Softrock TxRx, being it is <1 watt output? That's a lot of wire for a circle..

Dave
=====

----- Original Message -----
From: jabauzit
To: kgksdr@yahoogroups.com
Sent: Saturday, February 24, 2007 6:19 PM
Subject: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Best of luck! Hopefully all will DX okay.
>
> Also been looking at the MFJ-1788 but it is expensive!
>
Hi Dave,

Have a look at MFJ-932, MFJ-933 and MFJ-935B. They are the tuning part of the loop, you have to provide the loop - or buy from MFJ.

Jean-Claude PJ2BVU

796. Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 04:14:54 UTC
From: Ford Peterson
Topic: 796 Message: 796

Guys,

I've been debugging my RXTX kit and have it all working tonight. Puts out about 1.3W actually. Very nice. I can get it to work with WinRad, Rocky, SDRadio, etc. But I cannot seem to make it work with the build 56 of the M0KGK transceiver software.

At first, I was getting an error indicating that it couldn't find loop.dll. So I found that and put it into the programfiles subdirectory for the transceiver. Then, it was having trouble finding MSVCR70.DLL. There are multiple copies of that on my computer now, so I copied one of them into the programfiles subdirectory and now I get no errors. But it still doesn't work.

I've been messing with screens and setups but cannot seem to find the magic equation to get it to go. Can I buy a clue?

Ford-N0FP
ford@...

797. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 04:55:50 UTC
From: jabauzit
Topic: 778 Message: 797

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Claude- If I read it right, I'll need the MFJ-932 for 40m rig and about 35 feet of wire; yes? Will it operate okay with a Softrock TxRx, being it is <1 watt output? That's a lot of wire for a circle..
>
Hi Dave,

The bigger the better the efficiency, but there is a maximum. For 40m it would be 8m (26 feet), mine is 20 feet which is the length of the copper tube sold here. It is better to use copper tube or pipe for efficiency: the bigger the diameter, the better. I used soft tube - the kind used for stove gas line - very easy to shape.

Jean-Claude PJ2BVU

798. Re: rxtx6.1 cw help need

Yahoo group: kgksdr
Date: 2007-02-25 06:33:26 UTC
From: ut1wpr
Topic: 785 Message: 798

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Probably best to stick it out, the only surefire way to deal with zippy
> CW is to have dedicated harware - I don't think a Windows PC (or Linux
> for that matter) will hack it. :-(

Hi Duncan!
It will be more simply to buy a new comp in general... And it's in my
plane for a nearest future. 900 MHz is not actual for now in most
cases.. ^-)

73! de Vic/ut1wpr

799. Re: [kgksdr] Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 11:06:01 UTC
From: Duncan Munro
Topic: 796 Message: 799

Ford Peterson wrote:
> Guys,
>
> I've been debugging my RXTX kit and have it all working tonight. Puts out
> about 1.3W actually. Very nice. I can get it to work with WinRad, Rocky,
> SDRadio, etc. But I cannot seem to make it work with the build 56 of the
> M0KGK transceiver software.
>
> At first, I was getting an error indicating that it couldn't find loop.dll.
> So I found that and put it into the programfiles subdirectory for the
> transceiver. Then, it was having trouble finding MSVCR70.DLL. There are
> multiple copies of that on my computer now, so I copied one of them into the
> programfiles subdirectory and now I get no errors. But it still doesn't
> work.
>
> I've been messing with screens and setups but cannot seem to find the magic
> equation to get it to go. Can I buy a clue?

Hi Ford,

There is no magic equation, normally it should be easy to set up. Take
loop.dll and MSVCR70.DLL out of the program files directory and put them
in C:\Windows\System32. Make sure they are deleted from the KGKSDR and
WinPSK folders.

That way KGKSDR and WinPSK will be able to see them at the same time.
If you have two seperate folders for KGKSDR and WinPSK, that is in fact
the only way it will work.

73,

Duncan
M0KGK

800. Tune function not working for me

Yahoo group: kgksdr
Date: 2007-02-25 16:10:43 UTC
From: Dave
Topic: 800 Message: 800

I'm trying to figure out why the tune function isn't working for me. Clicking the Tune button activates PTT but I get no Tx I/Q. The left channel has nothing and the right channel sees a momentary offset that decays to zero volts (like the A/D is being written with a big offset that charges a capacitor). I also get no sidetone with Tx monitor selected (I get the same results with Rx mute on Tx selected).

Dave, WA3OFF

801. Delta 44 gain setting does not persist

Yahoo group: kgksdr
Date: 2007-02-25 16:13:28 UTC
From: Dave
Topic: 801 Message: 801

Is there a way to get the M-Audio control app for the Delta 44 to retain the output gain setting? When I reboot the PC, the Delta 44 reverts to it's default of -10dBV. I use the Consumer setting to get the necessary drive level for my SR RXTX (SR hardware configuration matches the current production units).

Dave, WA3OFF

802. A few suggestions for the KGKSDR app

Yahoo group: kgksdr
Date: 2007-02-25 16:19:55 UTC
From: Dave
Topic: 802 Message: 802

I have some thoughts for your consideration regarding characteristics of KGKSDR:

Operation of the PTT/MOX/Tune buttons seems awkward. The PTT button-depressed look does not track if the MOX or Tune function is activated by the menu or the function key. I think these buttons should really be toggled so that it does not use a different button or function key to turn off the MOX or Tune than the key used to activate MOX or Tune. That would make the PTT button redundant (since it is the default operation), or at least make it a configuration option to enable PTT.

Another handy feature would be for KGKSDR to remember the last used frequency (or offset from center, the result is the same) and tune to that when the app is started. All the other SDR apps do that and it would make it much easier to compare apps receiving a given signal.

It would be nice of the app centered the current frequency on the spectrum display (subject to display-edge limits) when zooming in. That can somewhat be accomplished by overzooming then zooming back out, but that's not ideal.

It's difficult to tune to an exact frequency because the amount of frequency change when clicking on a new frequency is not a multiple of the drag or mouse-wheel step size. I'm not sure how to improve that, though.

When clicking somewhere other than the filter bar and dragging, the frequency jumps at button release if the frequency change from dragging is too small. I guess that it might be necessary to somehow distinguish between an inadvertent mouse movement when intending to select a new frequency with the mouse click and an intent to drag the frequency, but the current scheme is awkward. Perhaps the app should assume a new frequency is intended until it sees some minimum movement, then beyond that amount of movement switch to drag mode and stay there.

When clicking off the frequency bar and dragging, it would be nice if the frequency bar stayed stationary and the grid moved instead. Other apps work this way and I find it much easier to deal with.

The grid on the spectrum display does not have uniform spacing of the frequency lines, apparent at maximum zoom. I've also noticed that the signal peaks seem to be offset a few Hz (to the right) from the frequency lines compared to other SDR apps. Perhaps there is a bit of truncation error in the plotting calculations.

Dave, WA3OFF

803. Re: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 17:35:30 UTC
From: Dave Mynatt
Topic: 778 Message: 803

Jean- What program did you use to calculate 26 feet? I downloaded several programs from R.J. Edwards' site and used RJELOOP1.exe and I can't get 26 feet no matter what parameters I use.

Dave
=====

----- Original Message -----
From: jabauzit
To: kgksdr@yahoogroups.com
Sent: Saturday, February 24, 2007 9:55 PM
Subject: [kgksdr] Re: RXTXv6.1 + KGKSDR = cw fun

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Claude- If I read it right, I'll need the MFJ-932 for 40m rig and about 35 feet of wire; yes? Will it operate okay with a Softrock TxRx, being it is <1 watt output? That's a lot of wire for a circle..
>
Hi Dave,

The bigger the better the efficiency, but there is a maximum. For 40m it would be 8m (26 feet), mine is 20 feet which is the length of the copper tube sold here. It is better to use copper tube or pipe for efficiency: the bigger the diameter, the better. I used soft tube - the kind used for stove gas line - very easy to shape.

Jean-Claude PJ2BVU

804. Re: [kgksdr] Delta 44 gain setting does not persist

Yahoo group: kgksdr
Date: 2007-02-25 18:43:57 UTC
From: Duncan Munro
Topic: 801 Message: 804

Dave wrote:
> Is there a way to get the M-Audio control app for the Delta 44 to
> retain the output gain setting? When I reboot the PC, the Delta 44
> reverts to it's default of -10dBV. I use the Consumer setting to get
> the necessary drive level for my SR RXTX (SR hardware configuration
> matches the current production units).

I think I managed this by saving the profile from the Delta control
panel. It loads up automatically now when the machine is booted.

73,

Duncan
M0KGK

805. Re: [kgksdr] Tune function not working for me

Yahoo group: kgksdr
Date: 2007-02-25 18:43:00 UTC
From: Duncan Munro
Topic: 800 Message: 805

Dave wrote:
> I'm trying to figure out why the tune function isn't working for me.
> Clicking the Tune button activates PTT but I get no Tx I/Q. The left
> channel has nothing and the right channel sees a momentary offset that
> decays to zero volts (like the A/D is being written with a big offset
> that charges a capacitor). I also get no sidetone with Tx monitor
> selected (I get the same results with Rx mute on Tx selected).

Hi Dave,

Are you trying to tune in the centre of the frequency band? (i.e. an
offset of zero Hz).

73,

Duncan
M0KGK

806. Re: RXTXv6.1 + KGKSDR = cw fun

Yahoo group: kgksdr
Date: 2007-02-25 19:13:32 UTC
From: jabauzit
Topic: 778 Message: 806

--- In kgksdr@yahoogroups.com, "Dave Mynatt" <dave@...> wrote:
>
> Jean- What program did you use to calculate 26 feet? I downloaded several programs from R.J. Edwards' site and used RJELOOP1.exe and I can't get 26 feet no matter what parameters I use.
>
Hi Dave,

The 26 feet value comes from the fact that the loop should be around 75% of 1/4 wavelength - the maximum is less than a 1/2 wavelength but that's big. You choose the length and the diameter of the pipe to make the calculations.

Jean-Claude PJ2BVU

807. RE: [kgksdr] Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 19:48:19 UTC
From: Ford Peterson
Topic: 796 Message: 807

Duncan,

Thanks for the responses to my previous queries. We are making progress. I moved the loop.dll and msvcr70.dll into the system32 folder. It came to life -- well sort of at least...

My sound card is a Soundblaster Audigy 2ZS, 24bit 96K samples. Any attempt to use the ASIO4ALL software causes the "transceiver" settings window to lock up. Getting the receiver to work is now a function of setting the speaker, input, mic, etc. Pressing MOX gets the PTT to toggle but no tones appear when RTS is connected to CTS.

One other mystery is that when in receive, if the RF gain is set too high (<S9), I begin to hear the sound card keying .-. ..-. (RF) over and over at about 20WPM. Moving the RF gain control stops the weird keying.

I assume that others do not experience this, so it must be something in my configuration that is twisted. Can I buy another clue as to 'the fix?'

Thanks

Ford-N0FP
ford@...

808. Re: [kgksdr] Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 20:43:26 UTC
From: Duncan Munro
Topic: 796 Message: 808

Ford Peterson wrote:
> Duncan,
>
> Thanks for the responses to my previous queries. We are making progress. I
> moved the loop.dll and msvcr70.dll into the system32 folder. It came to
> life -- well sort of at least...
>
> My sound card is a Soundblaster Audigy 2ZS, 24bit 96K samples. Any attempt
> to use the ASIO4ALL software causes the "transceiver" settings window to
> lock up. Getting the receiver to work is now a function of setting the
> speaker, input, mic, etc. Pressing MOX gets the PTT to toggle but no tones
> appear when RTS is connected to CTS.

Hi Ford,

OK, have you set a frequency to transmit on, or are you just at the
'centre' frequency you get when you power up KGKSDR? If so, this has
caught a few people out recently.

It may not be the problem you are having, but just so everyone knows ---
the Softrock cannot transmit at exactly the crystal frequency. For
example, if your Softrock crystal is 7054.320 kHz it is not physically
possible to send CW or a tune signal out on this frequency. This would
involve sending DC out (which KGKSDR tries to do) but the soundcard
hardware and Softrock board will block any DC making it impossible!

As I say, it may not be the cause of the problem. If IQ output, mic
input are missing off the config then no sound will come out anyway.

> One other mystery is that when in receive, if the RF gain is set too high
> (<S9), I begin to hear the sound card keying .-. ..-. (RF) over and over
> at about 20WPM. Moving the RF gain control stops the weird keying.

Is the AGC set to manual? (I should have taken the manual option off as
it's a waste of time). If KGKSDR is doing this with AGC set to
slow/med/fast then there is a serious problem somewhere such as a
corrupt calibration map.

Let me know what your setting is and we'll take it from there.

73,

Duncan
M0KGK

809. Re: [kgksdr] Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 20:52:10 UTC
From: N Munro
Topic: 796 Message: 809

Ford Peterson wrote:
>
> One other mystery is that when in receive, if the RF gain is set too high
> (<S9), I begin to hear the sound card keying .-. ..-. (RF) over and over
> at about 20WPM. Moving the RF gain control stops the weird keying.
>

Ford
This only occurs if you are using Manual gain. Select an AGC mode (Fast, Med or Slow) then you can happily wind the RF gain up to maximum.

Norman
GM4KGK

810. RE: [kgksdr] Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-25 22:45:18 UTC
From: Ford Peterson
Topic: 796 Message: 810

Duncan,

Thanks for the help. Yes, the AGC was set to manual. Cockpit errors I'm afraid.

Some of the problems I'm having has to do with the screen where you set up the sound card driver. Apparently the "apply" button doesn't apply. If I close down and restart, changes are incorporated just fine. At one point, my sound card developed a single tone that I could not turn off. I could even hear the stations mixing with the tone but I couldn't turn it off. Even by going to IQGEN or some other software, that 1KHz tone remained. I had to reboot the computer and then it returned to normal.

So now when I hit Tune it flips the PTT line but no tone. When I hit MOX it flips the PTT line and I get a solid tone. On the back of a 9Pin Header I mounted a PNP transistor for ground referenced keying per the so-called "minimum configuration" sheet prepared by Jan-G0BBL. Looking at the connector I see that pin 7 (RTS) is at 2.5v and pin 8 (CTS) is at about 11V. When I key the line both 7 and 8 are about 9v.

Common High is RTS
PTT to TX is DTR

So now I get a tone but no keying. It turns out that my RS232 port is a bit awkward. The CTS line is at 0.15v without anything connected--it's not biased at -10v. So unkeyed it is 0.15, keyed it becomes 9.38v. Unfortunately Jan's nifty circuit provides enough bias to lift the CTS pin to 2.5V, which is effectively a logic 1 and therefore remains keyed.

I've seen this before. RS232 specs are extremely loose. Logic 0 is not -10v on all ports. In the case of my computer, it's 0.15v. I used a 2N3906 from the junk box and that has enough leakage to pull the CTS line to 2.5V, which in the case of my computer is a logic level 1.

So what's the fix? I don't know. Maybe a pair of NPN transistors?

Thanks for the help. I'm almost ready for my first QSO...

Ford-N0FP
ford@...

811. Re: A few suggestions for the KGKSDR app

Yahoo group: kgksdr
Date: 2007-02-25 22:56:01 UTC
From: Ray Benton
Topic: 802 Message: 811

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:

> Hi Dave .. I have just read your message on the suggestions for
KGKSDR and agree "with most of it". However one of the reasons I
LOVE KGKSDR is the fact that can be tuned with the tuning
bar.Personally I really dislike the programs that tune by sliding
the freq. Just my opinion .. I know Duncan will do what is best for
all of us .. I love his work and also Winrad. 73 Ray W7rjc

> I have some thoughts for your consideration regarding
> characteristics of KGKSDR:
>
> Operation of the PTT/MOX/Tune buttons seems awkward. The PTT
button-
> depressed look does not track if the MOX or Tune function is
> activated by the menu or the function key. I think these buttons
> should really be toggled so that it does not use a different button
> or function key to turn off the MOX or Tune than the key used to
> activate MOX or Tune. That would make the PTT button redundant
> (since it is the default operation), or at least make it a
> configuration option to enable PTT.
>
> Another handy feature would be for KGKSDR to remember the last used
> frequency (or offset from center, the result is the same) and tune
to
> that when the app is started. All the other SDR apps do that and
it
> would make it much easier to compare apps receiving a given signal.
>
> It would be nice of the app centered the current frequency on the
> spectrum display (subject to display-edge limits) when zooming in.
> That can somewhat be accomplished by overzooming then zooming back
> out, but that's not ideal.
>
> It's difficult to tune to an exact frequency because the amount of
> frequency change when clicking on a new frequency is not a multiple
> of the drag or mouse-wheel step size. I'm not sure how to improve
> that, though.
>
> When clicking somewhere other than the filter bar and dragging, the
> frequency jumps at button release if the frequency change from
> dragging is too small. I guess that it might be necessary to
somehow
> distinguish between an inadvertent mouse movement when intending to
> select a new frequency with the mouse click and an intent to drag

the
> frequency, but the current scheme is awkward. Perhaps the app
should
> assume a new frequency is intended until it sees some minimum
> movement, then beyond that amount of movement switch to drag mode
and
> stay there.
>
> When clicking off the frequency bar and dragging, it would be nice
if
> the frequency bar stayed stationary and the grid moved instead.
> Other apps work this way and I find it much easier to deal with.
>
> The grid on the spectrum display does not have uniform spacing of
the
> frequency lines, apparent at maximum zoom. I've also noticed that
> the signal peaks seem to be offset a few Hz (to the right) from the
> frequency lines compared to other SDR apps. Perhaps there is a bit
> of truncation error in the plotting calculations.
>
> Dave, WA3OFF
>

812. Re: Delta 44 gain setting does not persist

Yahoo group: kgksdr
Date: 2007-02-26 14:00:06 UTC
From: Dave
Topic: 801 Message: 812

> I think I managed this by saving the profile from the Delta control
> panel. It loads up automatically now when the machine is booted.

I thought I had tried that without success, but I noticed just now that this morning when I booted the PC it did indeed come up at the desired setting. Perhaps I had to do a Load after the Save (which I did at some point yesterday) to get it to remember to load my saved configuration.

Dave, WA3OFF

813. Re: Tune function not working for me

Yahoo group: kgksdr
Date: 2007-02-26 14:06:06 UTC
From: Dave
Topic: 800 Message: 813

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> Dave wrote:
> > I'm trying to figure out why the tune function isn't working for
> > me.
>
> Are you trying to tune in the centre of the frequency band? (i.e. an
> offset of zero Hz).

No. I get the same result regardless of the frequency to which it is tuned. Without changing frequency, keying the transmitter with the key (to RS-232) keys the Tx normally. I'm only using CWL mode; Tune does not activate in USB or USB mode.

Tune has always behaved this way for me since it was first implemented.

Dave, WA3OFF

814. Re: A few suggestions for the KGKSDR app

Yahoo group: kgksdr
Date: 2007-02-26 14:28:11 UTC
From: Dave
Topic: 802 Message: 814

--- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@...> wrote:
> However one of the reasons I
> LOVE KGKSDR is the fact that can be tuned with the tuning
> bar.Personally I really dislike the programs that tune by sliding
> the freq.

I'm not sure I follow what you are saying. I'm suggesting that sliding the filter bar to change Rx frequency remain the same, but clicking and dragging elsewhere (not on the filter bar) drag the grid rather than moving the filter bar. As it is, clicking off the filter bar and dragging moves the filter bar to a new frequency until the filter bar reaches the edge of the window, then the grid slides in the direction opposite to the dragging. It's a bit counterintuitive since you aren't visually dragging anything.

I'm also suggesting that clicking without dragging remain the same, simply jumping to the clicked-on frequency.

Other programs such as PowerSDR drag the filter to a higher or lower audio frequency when the filter bar is grabbed, which I don't care for as much (unless perhaps that is done only when grabbing the filter-bar edge and not the middle of the filter bar, but that's hard to do when zoomed way out).

Dave, WA3OFF

815. Re: A few suggestions for the KGKSDR app

Yahoo group: kgksdr
Date: 2007-02-26 16:10:15 UTC
From: Lyle Koehler, K0LR
Topic: 802 Message: 815

I vote for leaving the tuning controls as they are. Dragging the grid seems like holding the knob still and turning the radio! But I would like to see KGKSDR "remember" the VFO settings last used on each of the LO frequency choices.

Lyle, K0LR

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@> wrote:
> > However one of the reasons I
> > LOVE KGKSDR is the fact that can be tuned with the tuning
> > bar.Personally I really dislike the programs that tune by sliding
> > the freq.
>
> I'm not sure I follow what you are saying. I'm suggesting that
> sliding the filter bar to change Rx frequency remain the same, but
> clicking and dragging elsewhere (not on the filter bar) drag the grid
> rather than moving the filter bar.

816. Re: Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-26 16:27:19 UTC
From: verduynj
Topic: 796 Message: 816

Ford,

Ref -10V missing on your RS232:

Have you tried replacing the pnp keying transistor by another one?
Have your tried addomg a 10K or 4K7 resistor between CTS to ground?

If this fails, as workaround you could consider putting 3 pcs
1n4148's in series with the PTT_in line to RXTX so the DC voltage
needs to exceed at least >3V to switch to TX mode.

GL & 73s

Jan G0BBL

--- In kgksdr@yahoogroups.com, "Ford Peterson" <ford@...> wrote:
> even hear the stations mixing with the tone but I couldn't turn it
off.
> Even by going to IQGEN or some other software, that 1KHz tone
remained. I
> had to reboot the computer and then it returned to normal.
>
> So now when I hit Tune it flips the PTT line but no tone. When I
hit MOX it
> flips the PTT line and I get a solid tone. On the back of a 9Pin
Header I
> mounted a PNP transistor for ground referenced keying per the so-
called
> "minimum configuration" sheet prepared by Jan-G0BBL. Looking at the
> connector I see that pin 7 (RTS) is at 2.5v and pin 8 (CTS) is at
about 11V.
> When I key the line both 7 and 8 are about 9v.
>
> Common High is RTS
> PTT to TX is DTR
>
> So now I get a tone but no keying. It turns out that my RS232 port
is a bit
> awkward. The CTS line is at 0.15v without anything connected--it's
not
> biased at -10v. So unkeyed it is 0.15, keyed it becomes 9.38v.
> Unfortunately Jan's nifty circuit provides enough bias to lift the
CTS pin
> to 2.5V, which is effectively a logic 1 and therefore remains keyed.
>
> I've seen this before. RS232 specs are extremely loose. Logic 0

is not
> -10v on all ports. In the case of my computer, it's 0.15v. I used
a 2N3906
> from the junk box and that has enough leakage to pull the CTS line
to 2.5V,
> which in the case of my computer is a logic level 1.
>
> So what's the fix? I don't know. Maybe a pair of NPN
transistors?
>
> Thanks for the help. I'm almost ready for my first QSO...
>
> Ford-N0FP
> ford@...
>

817. Re: Delta 44 gain setting does not persist

Yahoo group: kgksdr
Date: 2007-02-26 20:50:51 UTC
From: philip_g7jur
Topic: 801 Message: 817

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> > I think I managed this by saving the profile from the Delta control
> > panel. It loads up automatically now when the machine is booted.
>
> I thought I had tried that without success, but I noticed just now that
> this morning when I booted the PC it did indeed come up at the desired
> setting. Perhaps I had to do a Load after the Save (which I did at
> some point yesterday) to get it to remember to load my saved
> configuration.
>
> Dave, WA3OFF
>
Hi Dave.
I have found the same thing that you have to do a Save then Load
to keep the settings.
Philip g7jur.

818. Re: A few suggestions for the KGKSDR app

Yahoo group: kgksdr
Date: 2007-02-26 22:19:03 UTC
From: Ray Benton
Topic: 802 Message: 818

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:

>Hi Dave .. Ok OK I see better now what u were suggesting. I see no
problem with that. I'm not a fan of the POWERSDT software .. to hard
to use. Ray W7RJC

> --- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@> wrote:
> > However one of the reasons I
> > LOVE KGKSDR is the fact that can be tuned with the tuning
> > bar.Personally I really dislike the programs that tune by
sliding
> > the freq.
>
> I'm not sure I follow what you are saying. I'm suggesting that
> sliding the filter bar to change Rx frequency remain the same, but
> clicking and dragging elsewhere (not on the filter bar) drag the
grid
> rather than moving the filter bar. As it is, clicking off the
filter
> bar and dragging moves the filter bar to a new frequency until the
> filter bar reaches the edge of the window, then the grid slides in
> the direction opposite to the dragging. It's a bit
counterintuitive
> since you aren't visually dragging anything.
>
> I'm also suggesting that clicking without dragging remain the same,
> simply jumping to the clicked-on frequency.
>
> Other programs such as PowerSDR drag the filter to a higher or
lower
> audio frequency when the filter bar is grabbed, which I don't care
for
> as much (unless perhaps that is done only when grabbing the filter-
bar
> edge and not the middle of the filter bar, but that's hard to do
when
> zoomed way out).
>
> Dave, WA3OFF
>

819. RE: [kgksdr] Re: Dead-in-the-water

Yahoo group: kgksdr
Date: 2007-02-27 04:07:59 UTC
From: Ford Peterson
Topic: 796 Message: 819

Jan wrote:
****
Ford,

Ref -10V missing on your RS232:

Have you tried replacing the pnp keying transistor by another one?
Have your tried addomg a 10K or 4K7 resistor between CTS to ground?

If this fails, as workaround you could consider putting 3 pcs
1n4148's in series with the PTT_in line to RXTX so the DC voltage
needs to exceed at least >3V to switch to TX mode.

GL & 73s

Jan G0BBL
****

Thanks so much for the response. I'm getting closer yet! I tried the resistor to ground but no joy. The diodes seemed the best approach. I used 4 instead of 3 1N4148s. Now it keys like a champ--well sort of...

I get full power keying, but the key is far from smooth. Setting the keyer to about 25wpm, a string of dits is really a string of S S S S S S S . Three dits and a pause, three dits and a pause. It repeats forever. So it appears that the sound card is not keeping up with the serial port or something.

I see that there are parameters for click delay and TX hold time. Adjusting these does have an effect. But what's the strategy? Messing with the controls I can make it worse, but not better. The default was a rather high number in both fields. Reducing them to zero or 1 seemed to be about the best. At this point it is still unusable on CW since the keying is a not smooth response in coordination with the keyer.

Another clue here is that the PTT / MOX / TUN buttons are balking. The screens are in a somewhat brain freeze for a few seconds before the PTT button can be pressed. In PTT it seems normal and the user has full freedom to mouse around the screen. But in MOX it brain freezes the mouse and becomes somewhat irratic when I do get the mouse to respond. Once I push PTT, it takes about 3 seconds to release go back to receive again. The more I do it, the worse it gets. Restarting kgksdr provides an improvement on the brain freeze, but gets worse as I click on the MOX/PTT line.

Is it supposed to transmit without doing the manual MOX press? While it transmits, it only does dits and dahs come out as dits. Brain freeze and the screen flips between xmit/rcv between dits. I like the function! E.g.

just start keying to transmit is nice.

It's almost like there is another port conflicting with com1...

Any ideas?

Ford-N0FP
ford@...

820. crackling noise

Yahoo group: kgksdr
Date: 2007-02-27 22:52:54 UTC
From: Sergey Kuzmin
Topic: 820 Message: 820

Hi to All

My setup - Edirol FA66 with KGKSDR and RXTX.
used with Edirol driver and 192 Khz , not ASIO
ASIO as I understood not can do 192 Khz.

RX and TX part - it works , but have crackling noise (sometimes on
RX) and always on TX .

Also if i disconnect antenna , noise coming up ... .

Any recommendation?

73
Serge
RV3APM

821. Re: [kgksdr] crackling noise

Yahoo group: kgksdr
Date: 2007-02-27 23:35:56 UTC
From: Duncan Munro
Topic: 820 Message: 821

Sergey Kuzmin wrote:
> Hi to All
>
> My setup - Edirol FA66 with KGKSDR and RXTX.
> used with Edirol driver and 192 Khz , not ASIO
> ASIO as I understood not can do 192 Khz.
>
> RX and TX part - it works , but have crackling noise (sometimes on
> RX) and always on TX .
>
> Also if i disconnect antenna , noise coming up ... .
>
>
> Any recommendation?

Hi Serge,

192 is not something I've tried but did work out it would need a lot of power to get it working (and probably more than the 3.5GHz machine I'm using now can manage).

Is there any way of increasing the buffering of the Edirol card? I know that this can be increased on cards like the Delta 44 to cut crackling and dropouts in the signal.

73,

Duncan
M0KGK

822. Re: crackling noise

Yahoo group: kgksdr
Date: 2007-02-28 09:02:03 UTC
From: Sergey Kuzmin
Topic: 820 Message: 822

Hi Duncan

Yes , I tried do audiobuffer more in Edirol setup it increase
latency , but looks better .
Anyway some crackling still . I have duo core 1.6x2 = 3.2 Ghz , 1 Gb
RAM

i just compare with PowerSDR , where no crackling .
I like KGK and want to have full support for hi-end card.

73
Serge

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Sergey Kuzmin wrote:

>
> Hi Serge,
>
> 192 is not something I've tried but did work out it would need a
lot of
> power to get it working (and probably more than the 3.5GHz machine
I'm
> using now can manage).
>
> Is there any way of increasing the buffering of the Edirol card? I
know
> that this can be increased on cards like the Delta 44 to cut
crackling
> and dropouts in the signal.
>
> 73,
>
> Duncan
> M0KGK
>

823. Thanks Hidehiko

Yahoo group: kgksdr
Date: 2007-02-28 13:40:51 UTC
From: Sergey Kuzmin
Topic: 823 Message: 823

Just addition

With Creative 2NX and setup from ja9mat ,hidehiko
got clear good PSK and SSB signal
1 to 1.4 W

But note - videodriver sometimes do clicking noise ...

73
Serge

824. CW Keying

Yahoo group: kgksdr
Date: 2007-03-01 01:52:04 UTC
From: Ford Peterson
Topic: 824 Message: 824

I've got my RXTX6.1 working fairly well. It puts out about 1.33W near as I can figure. But I'm having trouble with my keying.

The sound card is a SB Audigy 2ZS 24/96, which I just bought from Creative Solutions. The RX works great with all software. When I use KGKSDR and key the rig with a straight key, all is good. And when I key it at <=~10WPM using the keyer, it sounds pretty good. But as I increase the speed, it drops dits. At 25wpm, sending all dits, what you hear is a series of S S S S S where every 4th dit gets dropped. Sending all the dahs it ends up cropping the end of the dah. Increase it even more, to roughly 30WPM, and you hear every 4th dit when sending all dits.

It's almost as if the sound card cannot respond quick enough as it attempts to QSK by receiving between the dits. Pressing the MOX button is almost always a mistake. If I do that too many times, maybe 4 or 5 times, the screen's brain freeze balking eventually locks up and you need a restart of the KGKSDR software. Even when I do set the MOX button, the same thing happens only you don't hear the characteristic QSK (fast break-in).

The computer is a PIV 2.4GHz with 512MB ram. The keyer sounds fine on a regular radio. Looking at the keying line on a scope looks as you would expect.

I don't seem to have any troubles with any other software, so I'm thinking it is either a) the card I'm using was a bad choice, b) the software has a bug, c) I have the KGKSDR screens configured incorrectly, or d) some other quirk of nature.

Any or all clues are appreciated.

Ford-N0FP
ford@...

825. Buffer sizes

Yahoo group: kgksdr
Date: 2007-03-03 18:48:29 UTC
From: Ford Peterson
Topic: 825 Message: 825

I've been having trouble with my Audigy 2ZS card sending CW. Today, I discovered a button called Control Panel on the ASIO soundcard settings screen, right below the driver field.

Clicking on this control I get access to a window called ASIO Buffer Latency. It was defaulted to some large number like 60ms. Dropping that to 20ms almost eliminates my balking CW keying. But dropping it more would be even better.

At 40mS, I get no crackling out of the speaker but studder CW keying. At 25wpm, a string of dits sounds like a string of "S" letters as every 4th dit is missing.

At 20mS, the missing dits are now present but I also hear a sparkly crackling out of the speaker on RX. At 10mS, the sound card's mixer is unable to respond and just the hour glass appears on the screen.

So here we have a clue. Now, what the heck is "ASIO Buffer Latency?"

Is there some other screen that deals with this? I can almost eliminate the problems entirely so I must be on the right track to solving this problem.

Ford-N0FP
ford@...

826. Re: [kgksdr] Buffer sizes

Yahoo group: kgksdr
Date: 2007-03-03 20:02:58 UTC
From: Duncan Munro
Topic: 825 Message: 826

Ford Peterson wrote:

> So here we have a clue. Now, what the heck is "ASIO Buffer Latency?"

Hi Ford, it's a term used by your Audigy card to specify the amount of buffering for the ASIO input and output. The real meaning of the term latency is the time it takes for the PC to do something and for that 'something' to come out of the soundcard.

The Delta 44/66 do it as samples (256/512/1024 etc), the audigy is obviously doing it as milliseconds.

Large buffer sizes don't help with CW because if a dit comes along 0.0001 seconds after a buffer has been sent to the soundcard, it will be another 20/40/60/80 mS before KGKSDR can do anything of use with it. The faster you go, the worse it gets.

Small buffer sizes will make the CW smoother but then there is the problem of short gaps in the TX and RX processing if the PC is temporarily diverted elsewhere for a split second. A fast PC makes this a lot easier.

There are two bits of information that were not in your post, namely the CPU type/speed and the samplerate you are using. Both of these have a large bearing on the ability to use small buffer sizes and get less crackles.

73,

Duncan
M0KGK

827. looking for help

Yahoo group: kgksdr
Date: 2007-03-03 20:50:05 UTC
From: Kleibe J
Topic: 827 Message: 827

Hi all

Im in trouble with M0KGK SDR Transceiver V1.1.0.56.
Well, Im starting with a SB Audigy SE + AC97 onboard not a good setup
but I wanted to start with it.
The plans is to use the onboard to get Mic in and line out to my
headphones leaving I/Q to Audigy since it have just one input line.
Now Im getting 96KHz of bandwidth.

Problems:
I've noted that disabling onboard KGKSDR works nice but when I enable
it I get an error msg 'Could not set the sample to 96000'
and I cant get any signal on screen. Is there a way to fix it?
I've searching some help in previous post but nothing match with my
troubles
My setup is a P4, 768Mb,SB Audigy SE + AC97 onboard, ASIO4ALL v2.7 and
M0KGK SDR Transceiver V1.1.0.56 and SoftRock RXTX V6.1

Any sugestions???

Kleibe
PP2KR

828. Re: [kgksdr] looking for help

Yahoo group: kgksdr
Date: 2007-03-03 21:06:17 UTC
From: Duncan Munro
Topic: 827 Message: 828

Kleibe J wrote:
> Hi all
>
> Im in trouble with M0KGK SDR Transceiver V1.1.0.56.
> Well, Im starting with a SB Audigy SE + AC97 onboard not a good setup
> but I wanted to start with it.
> The plans is to use the onboard to get Mic in and line out to my
> headphones leaving I/Q to Audigy since it have just one input line.
> Now Im getting 96KHz of bandwidth.
>
> Problems:
> I've noted that disabling onboard KGKSDR works nice but when I enable
> it I get an error msg 'Could not set the sample to 96000'
> and I cant get any signal on screen. Is there a way to fix it?
> I've searching some help in previous post but nothing match with my
> troubles
> My setup is a P4, 768Mb,SB Audigy SE + AC97 onboard, ASIO4ALL v2.7 and
> M0KGK SDR Transceiver V1.1.0.56 and SoftRock RXTX V6.1

Hi Kleibe,

On ASIO4ALL it will scan all the soundcards and allow a speed which is
the lowest common denominator of all of them. That's why switching the
onboard card on will likely limit the speed to 48k.

73,

Duncan
M0KGK

829. RE: [kgksdr] Buffer sizes

Yahoo group: kgksdr
Date: 2007-03-03 22:13:01 UTC
From: Ford Peterson
Topic: 825 Message: 829

Thanks Duncan for the quick, helpful response. Unfortunately, there is a good portion of "black magic" to these sound card operations. I'm grateful that you understand them.

The CPU is a PIV operating at 2.4GHz. XP operating system. 512MB of RAM. The Audigy 2ZS board is sampling at 96KHz. Of interest here is that the KGKSDR screen that allows me to select the rate comes up with an error message if I attempt to change it. There is a button on the mixer though that allows me to change it, but I've just been leaving it at 96KHz for testing purposes.

I'm still trying to get it working on SSB too. The signal is audible on a second radio, but there is no effective power to it. So far I've only been able to get CW working. It seems like if it works on CW, which is a tone from the sound card, it should also work on SSB with similar drive levels.

Ford-N0FP
ford@...

Ford Peterson wrote:

> So here we have a clue. Now, what the heck is "ASIO Buffer Latency?"

Hi Ford, it's a term used by your Audigy card to specify the amount of buffering for the ASIO input and output. The real meaning of the term latency is the time it takes for the PC to do something and for that 'something' to come out of the soundcard.

The Delta 44/66 do it as samples (256/512/1024 etc), the audigy is obviously doing it as milliseconds.

Large buffer sizes don't help with CW because if a dit comes along 0.0001 seconds after a buffer has been sent to the soundcard, it will be another 20/40/60/80 mS before KGKSDR can do anything of use with it. The faster you go, the worse it gets.

Small buffer sizes will make the CW smoother but then there is the problem of short gaps in the TX and RX processing if the PC is temporarily diverted elsewhere for a split second. A fast PC makes this a lot easier.

There are two bits of information that were not in your post, namely the CPU type/speed and the samplerate you are using. Both of these have a large bearing on the ability to use small buffer sizes and get less crackles.

73,

Duncan
M0KGK

830. PSK31 on 1.0.1.33 receiver software?

Yahoo group: kgksdr
Date: 2007-03-04 14:56:40 UTC
From: pa0rbc
Topic: 830 Message: 830

Dr OM's,
On my notebook the transceiversoftware will not run.
I want to use it only on my receiver but like to see PSK31 at the same time.
The receiversoftware 1.0.1.33 run well!
Is there is possibility to link the winpsk or psk31 to the sdr-software?
And can you replay and see also the stored files with psk later?
Many thanks in advance for your answer.
'73, Roeland.

Notebook: Olidata Stainer 2700, modelno. 536C.
Soundcard: usb external SB live 24bits (only 16 or 8 bits will run)
SDR: homemade on perfoboard from Funk-Amateur design.

831. Re: [kgksdr] PSK31 on 1.0.1.33 receiver software?

Yahoo group: kgksdr
Date: 2007-03-04 15:32:20 UTC
From: Duncan Munro
Topic: 830 Message: 831

pa0rbc wrote:
> Dr OM's,
> On my notebook the transceiversoftware will not run.
> I want to use it only on my receiver but like to see PSK31 at the same
> time.
> The receiversoftware 1.0.1.33 run well!
> Is there is possibility to link the winpsk or psk31 to the sdr-software?
> And can you replay and see also the stored files with psk later?
> Many thanks in advance for your answer.

Hi Roeland,

I believe that Virtual Audio Cable should be able to link the receiver
(build 33 or earlier with MME rather than ASIO) to your PSK software.

http://software.muzychenko.net/eng/vac.html

This is free to try so you can check it out before paying for it.

73,

Duncan
M0KGK

832. Computer pre-requisites

Yahoo group: kgksdr
Date: 2007-03-04 17:36:22 UTC
From: Robin Hodgson
Topic: 832 Message: 832

As a total newcomer here, can someone give me some basic info as to what OS this software will run on, and what is the minimum processor speed and configuration needed?
I've checked on Softrock 40 and looked through the archives here, so far without success.
I want to avoid having to buy a new computer/soundcard to run a $15 Softrock, if I can get started using any of my existing machines. I could accept less than full band coverage or optimum SNR in the interest of getting experience.
Any ideas how the performance degrades as the CPU starts limiting?

Robin, 9H1ZZ

833. Error #1025?

Yahoo group: kgksdr
Date: 2007-03-04 17:54:55 UTC
From: Marco IK1ODO
Topic: 830 Message: 833

Hello Duncan,

I'm getting "Multimedia error #1025" every time I try to close the "options" dialog box. However, KGKSDR seems to work well.

I'm using an M-AUDIO Audiophile192. I tried to play with the input/output configuration, but no success. What can I do?

73 - Marco IK1ODO

834. Re: [kgksdr] Computer pre-requisites

Yahoo group: kgksdr
Date: 2007-03-04 18:21:39 UTC
From: Duncan Munro
Topic: 832 Message: 834

Robin Hodgson wrote:
> As a total newcomer here, can someone give me some basic info as to
> what OS this software will run on, and what is the minimum processor
> speed and configuration needed?
> I've checked on Softrock 40 and looked through the archives here, so
> far without success.
> I want to avoid having to buy a new computer/soundcard to run a $15
> Softrock, if I can get started using any of my existing machines. I
> could accept less than full band coverage or optimum SNR in the
> interest of getting experience.
> Any ideas how the performance degrades as the CPU starts limiting?

Hi Robin,

The software runs on the Windows operating system, Win98SE or later
should work, Windows 2000 onwards is better.

From the help file for KGKSDR under Getting Started --> System
Requirements:

System requirements

The following system requirements should be regarded as an absolute
minimum recommendation. The CPU-intensive nature of the application
will mean that minimum spec machines will have difficulty running other
applications.

SDR receiver hardware providing quadrature (I/Q) signals, e.g. SoftRock,
FlexRadio
1GHz or higher CPU speed
256MB RAM
Soundcard capable of 44.1kHz stereo 16 bit input with ASIO drivers (or
ASIO4all software).
Speakers / headphones
Mouse

The following items are recommended:

2.5GHz or higher CPU speed
Quality high-bandwidth soundcard capable of 96kHz / 24 bit, e.g. M-Audio
Delta 44
The following items are optional:

Internet connection for checking software version
Signal generator for setting up manual calibration

Second receiver for setting up transmitter calibration

73,

Duncan
M0KGK

835. Re: [kgksdr] Error #1025?

Yahoo group: kgksdr
Date: 2007-03-04 19:18:53 UTC
From: Duncan Munro
Topic: 830 Message: 835

Marco IK1ODO wrote:
> Hello Duncan,
>
> I'm getting "Multimedia error #1025" every time I try to close the
> "options" dialog box. However, KGKSDR seems to work well.
>
> I'm using an M-AUDIO Audiophile192. I tried to play with the
> input/output configuration, but no success. What can I do?

Hi Marco,

If it has the phrase "Multimedia error #n" it's coming from the part of the software that deals with the mixer control.

I've made up a version that gives a bit more info and will be mailing it to you so we can track down what the issue is.

73,

Duncan
M0KGK

836. Re: Computer pre-requisites

Yahoo group: kgksdr
Date: 2007-03-05 09:12:25 UTC
From: Robin Hodgson
Topic: 832 Message: 836

Many thanks Duncan. I do have one machine which meets the minimum, b
ut not your recommended specs. I'll give it a whirl and see how it
performs.

Robin 9H1ZZ

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Robin Hodgson wrote:
> > As a total newcomer here, can someone give me some basic info as
to
> > what OS this software will run on, and what is the minimum
processor
> > speed and configuration needed?
> > I've checked on Softrock 40 and looked through the archives here,
so
> > far without success.
> > I want to avoid having to buy a new computer/soundcard to run a
$15
> > Softrock, if I can get started using any of my existing machines.
I
> > could accept less than full band coverage or optimum SNR in the
> > interest of getting experience.
> > Any ideas how the performance degrades as the CPU starts limiting?
>
> Hi Robin,
>
> The software runs on the Windows operating system, Win98SE or later
> should work, Windows 2000 onwards is better.
>
> From the help file for KGKSDR under Getting Started --> System
> Requirements:
>
> --
--
>
> System requirements
>
> The following system requirements should be regarded as an absolute
> minimum recommendation. The CPU-intensive nature of the
application
> will mean that minimum spec machines will have difficulty running
other
> applications.
>

> SDR receiver hardware providing quadrature (I/Q) signals, e.g.
SoftRock,
> FlexRadio
> 1GHz or higher CPU speed
> 256MB RAM
> Soundcard capable of 44.1kHz stereo 16 bit input with ASIO drivers
(or
> ASIO4all software).
> Speakers / headphones
> Mouse
>
> The following items are recommended:
>
> 2.5GHz or higher CPU speed
> Quality high-bandwidth soundcard capable of 96kHz / 24 bit, e.g. M-
Audio
> Delta 44
> The following items are optional:
>
> Internet connection for checking software version
> Signal generator for setting up manual calibration
> Second receiver for setting up transmitter calibration
>
> ----------
--
>
> 73,
>
> Duncan
> M0KGK
>

837. Re: PSK31 on 1.0.1.33 receiver software?

Yahoo group: kgksdr
Date: 2007-03-06 21:28:37 UTC
From: pa0rbc
Topic: 830 Message: 837

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> pa0rbc wrote:
> > Dr OM's,
> > On my notebook the transceiversoftware will not run.
> > I want to use it only on my receiver but like to see PSK31 at the
same
> > time.
> > The receiversoftware 1.0.1.33 run well!
> > Is there is possibility to link the winpsk or psk31 to the sdr-
software?
> > And can you replay and see also the stored files with psk later?
> > Many thanks in advance for your answer.
>
> Hi Roeland,
>
> I believe that Virtual Audio Cable should be able to link the
receiver
> (build 33 or earlier with MME rather than ASIO) to your PSK
software.
>
> http://software.muzychenko.net/eng/vac.html
>
> This is free to try so you can check it out before paying for it.
>
> 73,
>
> Duncan
> M0KGK
>
Thank you very much for you tip Duncan.
The virtual Audio Cable run's.
When Winmix and your receiveprogram are running Winmix will decode
for example CW.
Nice to play with your software.
'73, Roeland from Den Helder.

838. Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-09 17:33:39 UTC
From: cesco12342000
Topic: 838 Message: 838

In the ragchew qso this morning i learned that i had a quite broad signal on tx. Some 40khz wide. Seems this happens when driving the softrock too hard with kgk-trx (mic-gain too high). Can someone confirm?

Strangely this doesent happen running psk31 at same power levels.

839. Re: [kgksdr] Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-09 18:21:00 UTC
From: Jose A. Amador
Topic: 838 Message: 839

cesco12342000 wrote:

> In the ragchew qso this morning i learned that i had a quite broad
> signal on tx. Some 40khz wide. Seems this happens when driving the
> softrock too hard with kgk-trx (mic-gain too high). Can someone
> confirm?
>
> Strangely this doesent happen running psk31 at same power levels.

Well, on a Softrock you don't have baseband low pass filtering before
the modulator, so, distortion can easily show its ugly head.

Simple homebrew DSB radios have shown the same defects.

On voice, you should have LOWER average, because voice has more random
levels than PSK31. Peak to average ratio is at least 6 dB, if not more,
and depends on the particular voice of everyone speaking.

A lower microphone level should solve it, if there is nothing
essentially wrong with your hardware.

73,

Jose, CO2JA

V Conferencia Internacional de Energ?a Renovable, Ahorro de Energ?a y Educaci?n
Energ?tica.
22 al 25 de mayo de 2007
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.cujae.edu.cu/eventos/cier

840. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-09 19:18:04 UTC
From: Duncan Munro
Topic: 838 Message: 840

--- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@...> wrote:
>
> In the ragchew qso this morning i learned that i had a quite broad
> signal on tx. Some 40khz wide. Seems this happens when driving the
> softrock too hard with kgk-trx (mic-gain too high). Can someone
> confirm?
>
> Strangely this doesent happen running psk31 at same power levels.

Hi Cesco,

I have the problem the other way round, massive overdrive on PSK but only because I am scraping for gain using the mic straight into the Delta-66 card.

Either way, it's an issue. It's not easy to get power readings from the SR so it is not obvious when an overdrive situation presents itself.

Not sure I know what the answers are but I'll have a think over the weekend about ways to make the level setup less painful...

73,

Duncan
M0KGK

841. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 01:31:05 UTC
From: cesco12342000
Topic: 838 Message: 841

Hi Duncan,

I have researched a little deeper. What i have seen is that in an overdrive condition the soundcard will simply cut the signal amplitude on one polarity, but invert the signal on the other polarity!

a sample of +33000 will be limited to +32000, that's good.
a sample of -33000 will be limited to +32000 as well, not -32000.

This is the reason for the extreme broadband splatter.
Check it by watching the soundcard output with a scope while overdriving.

73, Cesco

842. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 01:35:39 UTC
From: cesco12342000
Topic: 838 Message: 842

Hi Jose,

> On voice, you should have LOWER average,

You are right.
I did forget that since i normally have the voice processor on.

> Peak to average ratio is at least 6 dB, if not more,

more like 13db here.

73, Cesco

843. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 04:15:10 UTC
From: Jose A. Amador
Topic: 838 Message: 843

cesco12342000 wrote:

> Hi Jose,
>
>> On voice, you should have LOWER average,
>
> You are right.
> I did forget that since i normally have the voice processor on.
>
>> Peak to average ratio is at least 6 dB, if not more,
>
> more like 13db here.
>
> 73, Cesco

OK, nice to know.

I don't know how is the constitution of KGKSDR in a block diagram.

But what helps to avoid excessively wide signals is not present in such an SDR at "IF" level, which is a variable one, and maybe could be low pass filtered only at 100 kHz or so. So we must be extra careful with this stuff. It is a normal behavior, after all, we just need to be alert.

Maybe a visual alarm in TX mode in the form of a "virtual LED" could be a good thing. It will very likely need to be calibrated to work in a variety of soundcards. Nevertheless, audio gain in the transmiter must also be set at an appropiate level. Or maybe some peak detector on the TX section of the Softrock should be added.

Cesco, what you experienced has happened here more than once. I was the designer, along with a friend, of a quite succesful little DSB transceiver in the 80's, using whatever parts were available in the junkboxes, it was a very simple and forgiving solution. Many ideas, like the use of negative feedback on wideband amplifiers was borrowed from Doug de Maw's "Solid State Design for the Radio Amateur". We used a very cheap carbon microphone, and no audio preamp to feed the two diode balanced modulator. The mic itself was the 3 kHz audio low pass filter, so bandwidth on the air was within reason.

When years passed, some "innovators" decided to "improve our design" and use electret mics with good quality OP amp preamps, capable of 15 kHz wide HiFi audio. The "perpetrators" were hard to convince that they had gone overboard and generated 30 kHz wide DSB signals...horror !

Maybe some adjustable DSP baseband filtering could be good thing on the transmit side of the KGK SDR transceiver as well. It all adds CPU load

and delays, I know, so Duncan will have to judge if it is convenient or not to add two more sliders (low cut and high cut) in the TX set up screens.

Quite a few ideas to sort out.

I have been quite busy and not able to finish the hardware of my SDR.

But I have used the KGKSDR as audio processor in the speaker line of my radio and it is super in CW filtering, it virtually "sucks" the signals out of the noise.

73 de Jose, CO2JA

V Conferencia Internacional de Energ?a Renovable, Ahorro de Energ?a y Educaci?n Energ?tica.
22 al 25 de mayo de 2007
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.cujae.edu.cu/eventos/cier

844. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 07:33:58 UTC
From: Duncan Munro
Topic: 838 Message: 844

Jose A. Amador wrote:

> Maybe some adjustable DSP baseband filtering could be good thing on the
> transmit side of the KGK SDR transceiver as well. It all adds CPU load
> and delays, I know, so Duncan will have to judge if it is convenient or
> not to add two more sliders (low cut and high cut) in the TX set up
> screens.

Hi Jose,

Filtering after the I/Q might cause phase problems (I don't know because
I haven't tried it, just guessing here). This could bring images back
after the calibration has been done.

I've had some other ideas, which are in more detail on the reply to
Cesco but basically some indicators to help show up an overload situation.

73,

Duncan
M0KGK

845. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 07:44:36 UTC
From: Duncan Munro
Topic: 838 Message: 845

cesco12342000 wrote:

> a sample of +33000 will be limited to +32000, that's good.
> a sample of -33000 will be limited to +32000 as well, not -32000.

Hi Cesco,

This should be an easy one to sort out, and I have some ideas for level setting.

1. Arrange test tone from KGKSDR at almost maximum output to the soundcard. Need to mess around with tune or something to get the right level of signal.

2. Using the soundcards own output level sliders, push them up until the softrock starts to distort, then knock them back a bit.

As long as KGKSDR then keeps within the min/max boundaries for the sound card, there should be no problem. As an additional note, in 1. above I say 'almost maximum'. The reason for this is that the final bit of IQ phase and amplitude compensation can take the amplitude up a little higher.

Instead of a LPF which will only try and clean up the damage after it's done, I can put in a 'soft clip' which will compress, say, the last 10% of the amplitude peak. This can be accompanied by an indicator or light to show that it's operating and that you need to back off. The good thing is that this can go in the corrected I/Q stream where it's needed without screwing up the phase.

I don't want the softrock or KGKSDR to get a name as a dirty TX, the stuff above including the one-time soundcard setup should guarantee a clean signal at all times. What do you think?

73,

Duncan
M0KGK

846. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 14:16:35 UTC
From: joe price
Topic: 838 Message: 846

Duncan,

I don't think over drive is a software issue. Tony's TX/RX project needs some type of output monitoring such as a RF detector or just a simple AMP meter in the VCC line in order to set soundcard output level. Some of the QRP antenna tuners have a meter that can be used.I've made many contacts with no reports of wide bandwith the only problem I see is that operation near edge of soundcard bandwith should be avoided because this will generate Spurs and Wideband junk. maybe you could add a TX mute function to prevent this when operating at the extreme the edge of soundcard.
Thanks again for your software
Joe WA9CGZ

847. KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 15:12:14 UTC
From: Duncan Munro
Topic: 847 Message: 847

All,

KGKSDR build 58 has been released to the website at:

http://www.m0kgk.co.uk/sdr/download.php

I've done quite a bit of work around levels, and there is also a three stage clipping routine which applies progressive compression to the audio signal. It will splatter a small amount if you overdrive it, but nowhere near as bad as before.

Some tips: Keep an eye on the drive indicator (where the S meter is placed on receive), and you should be able to get good levels without a messy signal. For SSB or AM, try the clip option -- even on low levels of drive, this makes for a much better audio. Use another RX to have a listen to the TX audio, there's normally enough RF flying around even from the little softrock to monitor what's radiating from a dummy load.

AM has been added, this is very much experimental but it seems to do the trick.

Finally, the frequency is remembered between sessions now so this should put you in your favourite part of the band every time you start up.

The full changelog is:

```
-----------------------------------------------------------------------
1.1.0.58 10/03/2007

FIXED: Much work done on getting various levels right
including prevention of wrap round if the ASIO driver
is overdriven.

ADDED: AM TX mode.

ADDED: Three stage clipping mechanism to prevent splatter
if the TX is inadvertently overdriven. This works on
AM and SSB modes.

ADDED: Remembers frequency between sessions.
-----------------------------------------------------------------------
```

73,

Duncan
M0KGK

848. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 17:46:24 UTC
From: Rahul Srivastava
Topic: 838 Message: 848

HI! Duncan,
M0KGK SDR is an amazing piece of software. I am a regular visitor to IIT (Indian Institue of Technology) Kanpur a premeir tech institute in India. This year during their fest 'Techkriti07" a workshop was organised on SDR.We made 24 Rx as 2 day project. Design was S/H sampler on YU1LM design. It was fed from a free running VFO 12 -60+Mhz giving a coverage of approx 3-18MHz. This not only provided coverage of many HAM bands but BC as well. M0KGK SDR realy performed amazingly. (I simply had to warn the enthusiast that the software can do transmit as well). Here are links to some pics abt the same:
http://www.esnips.com/web/HAMFEST07
Lately I was going thru the 50$ rig ARRL contest. I noticed use of soundcard was permissible. Just my thinking M0KGK and simple upconvertor can make a nice combination.
73
Rahul VU3WJM

Duncan Munro <m0kgk@...> wrote:
cesco12342000 wrote:

> a sample of +33000 will be limited to +32000, that's good.
> a sample of -33000 will be limited to +32000 as well, not -32000.

Hi Cesco,

This should be an easy one to sort out, and I have some ideas for level setting.

1. Arrange test tone from KGKSDR at almost maximum output to the soundcard. Need to mess around with tune or something to get the right level of signal.

2. Using the soundcards own output level sliders, push them up until the softrock starts to distort, then knock them back a bit.

As long as KGKSDR then keeps within the min/max boundaries for the sound card, there should be no problem. As an additional note, in 1. above I say 'almost maximum'. The reason for this is that the final bit of IQ phase and amplitude compensation can take the amplitude up a little higher.

Instead of a LPF which will only try and clean up the damage after it's done, I can put in a 'soft clip' which will compress, say, the last 10% of the amplitude peak. This can be accompanied by an indicator or light to show that it's operating and that you need to back off. The good thing is that this can go in the corrected I/Q stream where it's needed without screwing up the phase.

I don't want the softrock or KGKSDR to get a name as a dirty TX, the stuff above including the one-time soundcard setup should guarantee a clean signal at all times. What do you think?

73,

Duncan
M0KGK

The all-new Yahoo! Mail goes wherever you go - free your email address from your Internet provider.

849. Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 18:14:30 UTC
From: Lyle Koehler, K0LR
Topic: 847 Message: 849

In my system, it seems that the SSB drive levels are now a bit too low. My sound card (USB Audigy 2 NX) is presently adjusted to provide about 750 milliwatts output from the RXTXv6.1 in CW mode. This is a fairly conservative level; when operated from a 13.8 volt supply the RXTX can put out close to 2 watts without clipping. In SSB mode with the clip function in KGKSDR enabled, I'm seeing only about 250 milliwatts p-p. I would prefer to have the SSB level limited to just a little bit below the CW level. However, let's see what others have to say.

With the previous version of KGKSDR, and without the clip function turned on, I could push the output well over 1 watts p-p on SSB without seeing any bad effects. However, I have been concerned about overdriving things (especially when using the RXTX with an amplifier), and always monitor my transmissions in at least one of three ways: The bandscope on my IC-756PRO, a peak reading power meter, or a scope on the antenna lead. I agree with the need for a way to make the system reasonably "goof proof" so that the transceiver can be operated with confidence in stand-alone fashion.

Thanks, Duncan, for your continued work on this excellent software!

Lyle, K0LR

850. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 19:36:33 UTC
From: Duncan Munro
Topic: 838 Message: 850

Rahul Srivastava wrote:
> HI! Duncan,
> M0KGK SDR is an amazing piece of software. I am a regular visitor to IIT
> (Indian Institue of Technology) Kanpur a premeir tech institute in
> India. This year during their fest 'Techkriti07" a workshop was
> organised on SDR.We made 24 Rx as 2 day project. Design was S/H sampler
> on YU1LM design. It was fed from a free running VFO 12 -60+Mhz giving a
> coverage of approx 3-18MHz. This not only provided coverage of many HAM
> bands but BC as well. M0KGK SDR realy performed amazingly. (I simply
> had to warn the enthusiast that the software can do transmit as well).
> Here are links to some pics abt the same:
> http://www.esnips.com/web/HAMFEST07
> Lately I was going thru the 50$ rig ARRL contest. I noticed use of
> soundcard was permissible. Just my thinking M0KGK and simple upconvertor
> can make a nice combination.

Hi Rahul, sounds like you had a good time! I use one of your pics on
the intro to my SDR page: http://www.m0kgk.co.uk/sdr/index.php

73,

Duncan
M0KGK

851. Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 20:01:18 UTC
From: n3hkn
Topic: 847 Message: 851

I agree that the output of the new build is low. Applying Clip cuases
a very slight further reduction on power. - tone and psk tried.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Lyle Koehler, K0LR" <lyle@...> wrote:
>
> In my system, it seems that the SSB drive levels are now a bit too
> low. My sound card (USB Audigy 2 NX) is presently adjusted to provide
> about 750 milliwatts output from the RXTXv6.1 in CW mode. This is a
> fairly conservative level; when operated from a 13.8 volt supply the
> RXTX can put out close to 2 watts without clipping. In SSB mode with
> the clip function in KGKSDR enabled, I'm seeing only about 250
> milliwatts p-p. I would prefer to have the SSB level limited to just a
> little bit below the CW level. However, let's see what others have
to say.
>
> With the previous version of KGKSDR, and without the clip function
> turned on, I could push the output well over 1 watts p-p on SSB
> without seeing any bad effects. However, I have been concerned about
> overdriving things (especially when using the RXTX with an amplifier),
> and always monitor my transmissions in at least one of three ways: The
> bandscope on my IC-756PRO, a peak reading power meter, or a scope on
> the antenna lead. I agree with the need for a way to make the system
> reasonably "goof proof" so that the transceiver can be operated with
> confidence in stand-alone fashion.
>
> Thanks, Duncan, for your continued work on this excellent software!
>
> Lyle, K0LR
>

852. Re: [kgksdr] Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 20:28:57 UTC
From: Duncan Munro
Topic: 847 Message: 852

Lyle Koehler, K0LR wrote:
> In my system, it seems that the SSB drive levels are now a bit too
> low. My sound card (USB Audigy 2 NX) is presently adjusted to provide
> about 750 milliwatts output from the RXTXv6.1 in CW mode. This is a
> fairly conservative level; when operated from a 13.8 volt supply the
> RXTX can put out close to 2 watts without clipping. In SSB mode with
> the clip function in KGKSDR enabled, I'm seeing only about 250
> milliwatts p-p. I would prefer to have the SSB level limited to just a

Hi Lyle,

It looks like I've made a mistake here. In the absence of any documentation I had set the ASIO drive (a floating point value) to between -0.5 and +0.5, whereas it should have been from -1.0 to +1.0.

The software has been tested with the new values and gives plenty of drive and will drive the soundcard to the maximum. I've also checked it still works OK with the Cesco DLL.

Under the old regime, you would have got good drive out of normal SSB but a quarter of the power with Clip switched on. The -0.5 to +0.5 limitation on clip had been in there for a while.

Give the new build a try, it should be producing full output now. For others who were getting good drive before, please check output from the TX - it may be getting pushed a little harder now, so worth checking just to be safe. http://www.m0kgk.co.uk/sdr/download.php

73,

Duncan
M0KGK

853. Re: [kgksdr] Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 12:54:08 UTC
From: Jose A. Amador
Topic: 838 Message: 853

Duncan Munro wrote:

> Jose A. Amador wrote:
>
>> Maybe some adjustable DSP baseband filtering could be good thing on
>> the transmit side of the KGK SDR transceiver as well. It all adds
>> CPU load and delays, I know, so Duncan will have to judge if it is
>> convenient or not to add two more sliders (low cut and high cut) in
>> the TX set up screens.
>
> Hi Jose,
>
> Filtering after the I/Q might cause phase problems (I don't know
> because I haven't tried it, just guessing here). This could bring
> images back after the calibration has been done.
>
> I've had some other ideas, which are in more detail on the reply to
> Cesco but basically some indicators to help show up an overload
> situation.
>
> 73,
>
> Duncan M0KGK

OK, Duncan, and no, I meant filtering before phase shifting the audio.

But I read your answer to Cesco and that is a possible solution.

So, one step at a time, I like the soft clip and indicators idea.

I foresee one difficulty, and is that different soundcards clip at
different levels, and a calibration process is required to set it up well.

73, Jose

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http://www.cujae.edu.cu/eventos/cier

854. Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 20:38:10 UTC
From: Lyle Koehler, K0LR
Topic: 847 Message: 854

I forgot to mention in my earlier post that the output level from my sound card is about 2.2 volts p-p when the power output of the RXTX is at 750 milliwatts. That's pretty close to what the builder's notes say it should be. However, when I first built my RXTXv6.1, I needed considerably more output from the sound card to get that amount of RF power. It is possible that one of my transformers is wound or installed incorrectly, but since everything seemed to be working OK otherwise, I reduced the values of R3 and R9 in the SoftRock RXTX from 10k to 6.8k. That provides a little more "headroom" in the sound card than I had in the original hardware configuration.

Lyle, K0LR

855. Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-10 20:59:16 UTC
From: Lyle Koehler, K0LR
Topic: 847 Message: 855

Yes! Full output with clipping turned on, and no evidence of bad things happening on the 756PRO bandscope. There is a considerable increase in background noise when clipping/compression is used, which means that the compression is doing its job. And it's easy to reduce the amount of compresson simply by cranking down the mike gain slider in KGKSDR. Thanks, Duncan!

Lyle, K0LR

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>Give the new build a try, it should be producing full output now.

856. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-10 22:02:40 UTC
From: cesco12342000
Topic: 838 Message: 856

Hi Duncan,

Just tested build 59. The foldback issue is resolved. I can drive it how hard i want now, and no broadband splatter. THANKS !

One issue with the digital stuff is that drive is only 50% of possible values before some soft-clipping starts. I would remove all sorts of clipping, gain setting, etc from the digital path, only let the power slider active. The people making the digi programs know very well how much to drive their output.

I have received a MULTIPSK test version today. That means mt63, olivia, mfsk, throb, etc, etc, etc, for the softrock+loop. This is like christmas for me, hi.

For voice, it looks very nice on the scope. Had no time to go on-air today. I did put my quad (4-wheel motorcycle) on the road today, and had to give some test-rides to the kids.

btw:
I do use kgk-trx daily, and it's my favorite for the softrock. I do very much appreciate the work duncan is doing !

857. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-11 09:49:09 UTC
From: cesco12342000
Topic: 838 Message: 857

On Air test completed.

Works GOOD. Modulation of build 59 is better than older build, and no splatter. I did run 300+ W and had my signal measured by a station 5 miles away with a spectrum monitor.

Thanks Duncan!

858. Re: KGKSDR Build 58 released: AM and other updates

Yahoo group: kgksdr
Date: 2007-03-11 13:30:56 UTC
From: Dave
Topic: 847 Message: 858

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> I had set the ASIO drive (a floating point value) to between
> -0.5 and +0.5, whereas it should have been from -1.0 to +1.0.

With he new value it appears that output power is up on CW as well and I no longer need to run the "Consumer" output level setting with the Delta 44.

Speaking of the D44's output setting, I finally dicovered that the setting was reverting to "-10dBV" because it is being set unconditionally every time I run PowerSDR.

Thanks for saving the last-used frequency... works great.

Dave, WA3OFF

859. Processing IQ sound files

Yahoo group: kgksdr
Date: 2007-03-11 17:26:23 UTC
From: zl2cv
Topic: 859 Message: 859

Hi - thanks for the great software.

I've tried getting the Flexradio reflector interested in doing what you have done with the playback mechanism - ie. being able to position yourself in a long file and re-listen. But no interest. So thanks for doing it - very useful.

Some of the recordings I have are many gigabytes long and extend for several hours - but I think your player has limits - and it crashes out with the message 'Cannot ascend chunk'.

cheers, Julian ZL2CV

(Various Softrock RXs, RXTX Beta, Delta 44 etc.)

860. Re: [kgksdr] Processing IQ sound files

Yahoo group: kgksdr
Date: 2007-03-11 17:40:15 UTC
From: Duncan Munro
Topic: 859 Message: 860

zl2cv wrote:
> Hi - thanks for the great software.
>
> I've tried getting the Flexradio reflector interested in doing what
> you have done with the playback mechanism - ie. being able to position
> yourself in a long file and re-listen. But no interest. So thanks for
> doing it - very useful.
>
> Some of the recordings I have are many gigabytes long and extend for
> several hours - but I think your player has limits - and it crashes
> out with the message 'Cannot ascend chunk'.

Hi Julian,

Due to the way the offsets work in the .wav files, I think 2GB or 4GB
might be the limit for a .wav file being played back with KGKSDR. In
any case, problems will occur with .wav files over 4GB anyway.

There's some info on it at Wikipedia (a great resource by the way):

http://en.wikipedia.org/wiki/Wav

Scroll down to the bit that says 'limitations' and it explains why there
are problems with large .wav files.

73,

Duncan
M0KGK

861. Re: Splatter on SSB TX

Yahoo group: kgksdr
Date: 2007-03-11 17:40:38 UTC
From: vu3wjm
Topic: 838 Message: 861

Hi! Duncan,

TNX for pics and other stuff. Just went along as budding HAMs at
IIT -K have too much of faith. Now it feels nice when others are
crediting to it as a nice project. Nevetheless M0KGK SDR tops the
list as one of the softwares mainly due to versatality and extra
demod modes incomparison to others.

Tech power point is also uploaded on rapidshare just in case one
needs to look at he can drop a direct line for the same.

73

Rahul VU3WJM

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Rahul Srivastava wrote:
> > HI! Duncan,
> > M0KGK SDR is an amazing piece of software. I am a regular
visitor to IIT
> > (Indian Institue of Technology) Kanpur a premeir tech institute
in
> > India. This year during their fest 'Techkriti07" a workshop was
> > organised on SDR.We made 24 Rx as 2 day project. Design was S/H
sampler
> > on YU1LM design. It was fed from a free running VFO 12 -60+Mhz
giving a
> > coverage of approx 3-18MHz. This not only provided coverage of
many HAM
> > bands but BC as well. M0KGK SDR realy performed amazingly. (I
simply
> > had to warn the enthusiast that the software can do transmit as
well).
> > Here are links to some pics abt the same:
> > http://www.esnips.com/web/HAMFEST07
> > Lately I was going thru the 50$ rig ARRL contest. I noticed use
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> > soundcard was permissible. Just my thinking M0KGK and simple
upconvertor
> > can make a nice combination.
>
> Hi Rahul, sounds like you had a good time! I use one of your pics
on
> the intro to my SDR page: http://www.m0kgk.co.uk/sdr/index.php
>

> 73,
>
> Duncan
> M0KGK
>

862. Re: Processing IQ sound files

Yahoo group: kgksdr
Date: 2007-03-11 19:37:29 UTC
From: zl2cv
Topic: 859 Message: 862

Foiled by a 32 bit limit!

Thanks for the interesting link.

Any chance of the software writing up to the 2/4gb limit and then
cycling the file name, starting a new file etc. So you get a series of
2/4Gb chunks ...

Have you opened up the source code for others to look at - I might be
able to help out.

cheers & thanks again, Julian Zl2CV

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> zl2cv wrote:
> > Hi - thanks for the great software.
> >
> > I've tried getting the Flexradio reflector interested in doing what
> > you have done with the playback mechanism - ie. being able to position
> > yourself in a long file and re-listen. But no interest. So thanks for
> > doing it - very useful.
> >
> > Some of the recordings I have are many gigabytes long and extend for
> > several hours - but I think your player has limits - and it crashes
> > out with the message 'Cannot ascend chunk'.
>
> Hi Julian,
>
> Due to the way the offsets work in the .wav files, I think 2GB or 4GB
> might be the limit for a .wav file being played back with KGKSDR. In
> any case, problems will occur with .wav files over 4GB anyway.
>
> There's some info on it at Wikipedia (a great resource by the way):
>
> http://en.wikipedia.org/wiki/Wav
>
> Scroll down to the bit that says 'limitations' and it explains why
there
> are problems with large .wav files.
>
> 73,
>
> Duncan
> M0KGK
>

863. First PSK QSOs with KGKSDR & WinPsk

Yahoo group: kgksdr
Date: 2007-03-12 03:49:34 UTC
From: jabauzit
Topic: 863 Message: 863

Good night all,

After enjoying so much making CW QSOs I finally made a PSK test.
I made 2-1/2 QSOs tonight
YY7ABC - very close
HK4QDH - a little futher
KB3LIX - still further, copied my call and that's about it.

Many thanks to Duncan and Cesco

73 de Jean-Claude PJ2BVU

864. KGKsdr frequency off 25k

Yahoo group: kgksdr
Date: 2007-03-13 20:43:38 UTC
From: Ray Benton
Topic: 864 Message: 864

Hi Duncan and all,

Well this is so crazy I don't know where to start.
My KGKSDR program has an offset in the freqency of 25khz. let me explain.

The entered xtal freq. is 7.158
The recieved freq is transmitted on 7.180, the dial reads 7.180 but the recieved signal is on 7.205(approxately).

Is there a number in KGKSDR that could have mysteriously changed?

I thought at first it was something wrong in the RXTX, but I tried it with seveal other softrock receivers and have the same problem.
I also ran WINRAD and Rocky and everything was ok.

Hope somone can help .. Thanks Ray W7RJC

865. Re: [kgksdr] KGKsdr frequency off 25k

Yahoo group: kgksdr
Date: 2007-03-13 23:51:04 UTC
From: Duncan Munro
Topic: 864 Message: 865

Ray Benton wrote:
> Hi Duncan and all,
>
> Well this is so crazy I don't know where to start.
> My KGKSDR program has an offset in the freqency of 25khz. let me
> explain.
>
> The entered xtal freq. is 7.158
> The recieved freq is transmitted on 7.180, the dial reads 7.180 but
> the recieved signal is on 7.205(approxately).
>
> Is there a number in KGKSDR that could have mysteriously changed?
>
> I thought at first it was something wrong in the RXTX, but I tried
> it with seveal other softrock receivers and have the same problem.
> I also ran WINRAD and Rocky and everything was ok.
>
> Hope somone can help .. Thanks Ray W7RJC

Hi Ray, the crystal might be wrong from the stamping on the top, I've
seen it a couple of 'k' out but not 25.

If you have another RX to hand, try to zero beat to the softrock crystal
- this is how I get the zero freq to put into KGKSDR.

73,

Duncan
M0KGK

866. Re: KGKsdr frequency off 25k

Yahoo group: kgksdr
Date: 2007-03-14 01:22:23 UTC
From: Ray Benton
Topic: 864 Message: 866

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray Benton wrote:
> > Hi Duncan and all,
> >
> > Well this is so crazy I don't know where to start.
> > My KGKSDR program has an offset in the freqency of 25khz. let
me
> > explain.
> >
> > The entered xtal freq. is 7.158
> > The recieved freq is transmitted on 7.180, the dial reads
7.180 but
> > the recieved signal is on 7.205(approxately).
> >
> > Is there a number in KGKSDR that could have mysteriously
changed?
> >
> > I thought at first it was something wrong in the RXTX, but I
tried
> > it with seveal other softrock receivers and have the same
problem.
> > I also ran WINRAD and Rocky and everything was ok.
> >
> > Hope somone can help .. Thanks Ray W7RJC
>
> Hi Ray, the crystal might be wrong from the stamping on the top,
I've
> seen it a couple of 'k' out but not 25.
>
> If you have another RX to hand, try to zero beat to the softrock
crystal
> - this is how I get the zero freq to put into KGKSDR.
>
> 73,
>
> Duncan
> M0KGK
>
Hi Duncan .. I don't think the xtal is off .. the RXTX works fine
with other programs, but every softrock I have is off in KGKSDR all
about the same. I have noticed the error gets progesivly larger as
you tune away from the center freq. This is very strange. I think it
may have started after I took some voltage measurements at the comm
port. I had version 55 in at that time .. so I reloaded it but

didn't fix the problem. I then loaded version 59 .. but it still has the problem.
Do you suppose it could be something in the register?
And I had everthing .. KGKSDR .. WINPSK .. the mic level .. CW all working so well. I was trying to figure a way to run CWTYPE when I noticed the problem.
Thanks for helping with this screwy problem .. Ray W7RJC

867. Re: KGKsdr frequency off 25k

Yahoo group: kgksdr
Date: 2007-03-14 02:36:49 UTC
From: Dave
Topic: 864 Message: 867

--- In kgksdr@yahoogroups.com, "Ray Benton" <w7rjc@...> wrote:
> I have noticed the error gets progesivly larger as
> you tune away from the center freq.

A few more data points may demonstrate a pattern. As I understand the first data point:

Configured center frequency: 7158
Actual test signal frequency: 7180
Received signal appears at: 7205

For the same center frequency, where does the received signal appear when the actual test signal frequency is 7160? 7170?

Is it possible that KGKSDR and the sound card are disagreeing on the actual sample rate (Presumably you are using 96K)? I have no idea if that's even possible or what the result of such a thing would be.

Try creating another frequency entry selection (with the same center frequency) to choose and see if the result is the same.

Dave, WA3OFF

868. RX calibration points. How much?

Yahoo group: kgksdr
Date: 2007-03-14 05:05:09 UTC
From: ut1wpr
Topic: 868 Message: 868

Dear Duncan,
please answer me on couple of questions:
Is it need to repeat calibration procedure after crystall switching to
another value (change subband on the same band)?
Is it need to make new calibration when we change band but not change
crystall value (just change K div for counters) ?
My opinion is for both question "Yes". But several guys here has
another... So please be GURU :-) and advise us.
73 de Vic/ut1wpr

869. Re: [kgksdr] RX calibration points. How much?

Yahoo group: kgksdr
Date: 2007-03-14 07:05:03 UTC
From: Duncan Munro
Topic: 868 Message: 869

ut1wpr wrote:
> Dear Duncan,
> please answer me on couple of questions:
> Is it need to repeat calibration procedure after crystall switching to
> another value (change subband on the same band)?
> Is it need to make new calibration when we change band but not change
> crystall value (just change K div for counters) ?
> My opinion is for both question "Yes". But several guys here has
> another... So please be GURU :-) and advise us.

Hi Vic,

I have never tried to change the crystal so I don't know how much (if
any) it would change the calibration if the crystal was in the same band.

A DDS-60 kit should be turning up here soon so I will be able to do some
experiments on this.

73,

Duncan
M0KGK

870. Re: [kgksdr] Re: KGKsdr frequency off 25k

Yahoo group: kgksdr
Date: 2007-03-14 07:06:56 UTC
From: Duncan Munro
Topic: 864 Message: 870

Dave wrote:

> Is it possible that KGKSDR and the sound card are disagreeing on the
> actual sample rate (Presumably you are using 96K)? I have no idea if
> that's even possible or what the result of such a thing would be.

That is definitely possible and used to happen more frequently under the
old receiver.

73,

Duncan
M0KGK

871. Re: RX calibration points. How much?

Yahoo group: kgksdr
Date: 2007-03-14 19:49:09 UTC
From: Dave
Topic: 868 Message: 871

--- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
> Is it need to repeat calibration procedure after crystall switching
> to another value (change subband on the same band)?

One receive, I see the same automatically-derived calibration curve regardless of which crystal is used, so it seems mainly related to the sound card and SoftRock op amp circuits. My guess is that the same would be true of Tx operation, making recalibration for a crystal change unnecessary, but it's hard to compare. If you create another frequency entry, you get a whole new set of calibration files, so it will need to re-learn the Rx image rejection and you would need to redo the Tx image rejection procedure for each.

> Is it need to make new calibration when we change band but not
> change crystall value (just change K div for counters) ?

I think it might be necessary to recalibrate because the fixed difference in clocking delays in the hardware might result in relative phase changes.

Dave, WA3OFF

872. Re: [kgksdr] Re: RX calibration points. How much?

Yahoo group: kgksdr
Date: 2007-03-14 20:05:52 UTC
From: Duncan Munro
Topic: 868 Message: 872

Dave wrote:
> --- In kgksdr@yahoogroups.com, "ut1wpr" <ut1wpr@...> wrote:
>> Is it need to repeat calibration procedure after crystall switching
>> to another value (change subband on the same band)?
>
> One receive, I see the same automatically-derived calibration curve
> regardless of which crystal is used, so it seems mainly related to
> the sound card and SoftRock op amp circuits. My guess is that the
> same would be true of Tx operation, making recalibration for a
> crystal change unnecessary, but it's hard to compare. If you create
> another frequency entry, you get a whole new set of calibration
> files, so it will need to re-learn the Rx image rejection and you
> would need to redo the Tx image rejection procedure for each.

Hi Dave,

With a DDS-60 kit on its way, I'm trying to think ahead on this... It may be possible in future to automatically seperate the two distinct causes of I/Q phase and amplitude balance.

1. Items in the RF mixer chain, e.g. the mixer itself, transformer imperfections, quadrature clock delays.

2. Items in the audio chain, e.g. the soundcard input circuitry, Softrock analogue circuitry, cable, etc.

This would lead to two maps - a type 2 map to capture the audio discrepancies which would be static, and a type 1 map for the RF side which I believe would not vary too much with frequency. Should make life a lot easier for Softrocks which have crystal changes or VFO/DDS. Obviously transmit would use a similar setup.

73,

Duncan
M0KGK

873. KGKSDR off freq Thanks for help

Yahoo group: kgksdr
Date: 2007-03-15 00:25:44 UTC
From: Ray Benton
Topic: 873 Message: 873

A big thanks to Duncan and Dave. It was Dave's email that led Duncan to comment that having the soundcard and KGKSDR on different settings would cause this stupid freq problem I had. I learned big time on this one .. Thanks to all your help.

As a side note I now have CWget and CWtype working with RXTX and KGKSDR.(Ya I know .. I'm not much on cw anyway so give a guy a break). It was an easy Xmitter hookup .. no sound card involved.
Thanks so much again Ray W7RJC

874. CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 00:57:33 UTC
From: Ray Benton
Topic: 874 Message: 874

Hi Duncan,
I have a concern that in kgksdr my cpu load is constantly very high .. usually at 98 - 100%. I notice also that when I load kgksdr the logo fades away very slowly and jerky.
Is there any thing you could suggest as to why this is happening?
Thanks Ray W7RJC

875. Re: [kgksdr] CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 05:21:00 UTC
From: Rahul Srivastava
Topic: 874 Message: 875

Hi!
Same hapenning here. Celron 1.8Ghz on onboard AC97 and additional 4ch ESS1969. CPU load is less in transmit 51-59%
Also get a message on exit : Acess violation at address 00000000. Read of address 00000000.
Is this normal with the later builds??.
73
Rahul VU3WJM

Ray Benton <w7rjc@...> wrote:
Hi Duncan,
I have a concern that in kgksdr my cpu load is constantly very
high .. usually at 98 - 100%. I notice also that when I load kgksdr
the logo fades away very slowly and jerky.
Is there any thing you could suggest as to why this is happening?
Thanks Ray W7RJC

Inbox full of unwanted email? Get leading protection and 1GB storage with All New Yahoo! Mail.

876. Re: [kgksdr] CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 07:03:14 UTC
From: Duncan Munro
Topic: 874 Message: 876

Ray Benton wrote:
> Hi Duncan,
> I have a concern that in kgksdr my cpu load is constantly very
> high .. usually at 98 - 100%. I notice also that when I load kgksdr
> the logo fades away very slowly and jerky.
> Is there any thing you could suggest as to why this is happening?

Hi Ray,

What is your CPU speed, and what rate is your soundcard sampling at?

73,

Duncan
M0KGK

877. Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 11:09:44 UTC
From: Ray Benton
Topic: 874 Message: 877

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray Benton wrote:
> > Hi Duncan,
> > I have a concern that in kgksdr my cpu load is constantly very
> > high .. usually at 98 - 100%. I notice also that when I load
kgksdr
> > the logo fades away very slowly and jerky.
> > Is there any thing you could suggest as to why this is
happening?
>
> Hi Ray,
>
> What is your CPU speed, and what rate is your soundcard sampling
at?
>
> 73,
>
> Duncan
> M0KGK

>Hi Duncan .. CPU speed is 2.4 and soundcard sampling is 96
Thanks for advice U can give Ray W7RJC

878. Re: [kgksdr] Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 16:55:53 UTC
From: Duncan Munro
Topic: 874 Message: 878

Ray Benton wrote:

>> What is your CPU speed, and what rate is your soundcard sampling
>> Hi Duncan .. CPU speed is 2.4 and soundcard sampling is 96

Hi Ray,

The shack machine here is a little quicker at 2.6GHz and I cannot reliably run 96k on it. It works great at 48k, or I can run 96k on the 3.5GHz machine up in the office but no Softrock connected.

I would stick my neck out and say that a 3GHz+ machine would be needed with the current incarnation of KGKSDR to do 96k samplerate reliably.

73,

Duncan
M0KGK

879. Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 21:46:46 UTC
From: Lyle Koehler, K0LR
Topic: 874 Message: 879

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

> The shack machine here is a little quicker at 2.6GHz and I cannot
> reliably run 96k on it.

Interesting. My computer has an Athlon 3200+ processor that supposedly runs at 2.2 GHz. SoftRock I/O is handled by an Audigy 2 NX USB sound card, while the mike and speaker are using a SB Live 24-bit PCI card. I'm running both at 96 kHz and see typical CPU loading between 65 and 70 per cent. When the computer is opening another application or while I'm surfing the web with the receiver running, the CPU load does jump up to 100 per cent at times, and I occasionally hear a momentary dropout in the receive audio. However, when KGKSDR is the only application that is doing anything (even if multiple other applications are open), it seems to be absolutely solid. By the way, I don't recall ever changing any buffer settings from the default values.

Lyle, K0LR

880. Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-16 21:29:19 UTC
From: Dave
Topic: 874 Message: 880

> The shack machine here is a little quicker at 2.6GHz and I cannot
> reliably run 96k on it.

My 2.4GHz machine seems to do okay at 96k, around 70% CPU with KGKSDR.
One thing to make sure of is that the machine has enough memory. With
XP the minimum to avoid a lot of paging activity is probably 512MB.
My machine was a really slow when it had only 265MB due to constant
paging.

Dave, WA3OFF

881. Re: [kgksdr] Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-17 00:42:03 UTC
From: Duncan Munro
Topic: 874 Message: 881

Lyle Koehler, K0LR wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
>> The shack machine here is a little quicker at 2.6GHz and I cannot
>> reliably run 96k on it.
>
> Interesting. My computer has an Athlon 3200+ processor that supposedly
> runs at 2.2 GHz. SoftRock I/O is handled by an Audigy 2 NX USB sound
> card, while the mike and speaker are using a SB Live 24-bit PCI card.
> I'm running both at 96 kHz and see typical CPU loading between 65 and
> 70 per cent. When the computer is opening another application or while
> I'm surfing the web with the receiver running, the CPU load does jump
> up to 100 per cent at times, and I occasionally hear a momentary
> dropout in the receive audio. However, when KGKSDR is the only
> application that is doing anything (even if multiple other
> applications are open), it seems to be absolutely solid. By the way, I
> don't recall ever changing any buffer settings from the default values.

Hi Lyle,

Thanks for the info. All my machines are AMD, the 2.6GHz machine in the shack is actually clocked at 1.8 (I think).

It's great 90% of the time, it's just the other 10% when it's not great that screws it...

I'm still waiting on the DDS-60 kit to turn up and this will allow me to sample at 48k for low CPU overhead, but cover all of the 40m band.

73,

Duncan
M0KGK

882. Re: [kgksdr] Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-17 00:47:33 UTC
From: Duncan Munro
Topic: 874 Message: 882

Dave wrote:
>> The shack machine here is a little quicker at 2.6GHz and I cannot
>> reliably run 96k on it.
>
> My 2.4GHz machine seems to do okay at 96k, around 70% CPU with KGKSDR.
> One thing to make sure of is that the machine has enough memory. With
> XP the minimum to avoid a lot of paging activity is probably 512MB.
> My machine was a really slow when it had only 265MB due to constant
> paging.

Hi Dave,

Thanks for the info. I would agree with you that 512MB is the absolute minimum for XP and 1GB is better still.

It's a shame that KGKSDR only takes about 7-8MB tops out of this allocation and is at the mercy of other processes on the machine...

73,

Duncan
M0KGK

883. Re: CPU load is 100%

Yahoo group: kgksdr
Date: 2007-03-17 18:00:07 UTC
From: philip_g7jur
Topic: 874 Message: 883

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Hello all.

I have KGKSDR TXRX running fine here with a AMD Semprom 3000+ Clocked
at 1.8GHz, with 512 MB of RAM.
Running Window XP pro SP1, CPU usage in KGKSDR is around 50% at 96Khz
sample rate with a Delta 44 sound card.

Philip g7jur.

>
> Ray Benton wrote:
>
> >> What is your CPU speed, and what rate is your soundcard sampling
> >> Hi Duncan .. CPU speed is 2.4 and soundcard sampling is 96
>
> Hi Ray,
>
> The shack machine here is a little quicker at 2.6GHz and I cannot
> reliably run 96k on it. It works great at 48k, or I can run 96k on the
> 3.5GHz machine up in the office but no Softrock connected.
>
> I would stick my neck out and say that a 3GHz+ machine would be needed
> with the current incarnation of KGKSDR to do 96k samplerate reliably.
>
> 73,
>
> Duncan
> M0KGK
>

884. New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-18 21:27:22 UTC
From: cesco12342000
Topic: 884 Message: 884

The new Multipsk version for KGK-SDR allows digi-mode operation with single soundcard configuration. Multipsk will do a lot of digi-modes, including psk, rtty, mfsk, throb, olivia, domino, CW etc...

Get it here:
http://f6cte.free.fr/

Get the new loop.dll here:
http://hb9tlk.selfip.com/softrock/loopdll.zip

install the loop.dll in the windows/system32 folder (and nowhere else), then start kgk-sdr and multipsk. In multipsk press the "hb9tlk-sdr-interface" button and then "rxtx-screen".

Be careful about the mic-setting on tx. It has to be very low for data modes to get a clean tx signal.

885. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-19 11:47:39 UTC
From: cesco12342000
Topic: 884 Message: 885

I have assembled some instructions on how to run multipsk + kgk-sdr
with the softrock:

http://hb9tlk.selfip.com/softrock/index.html

886. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-21 05:28:17 UTC
From: wa0cqg
Topic: 884 Message: 886

--- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@...> wrote:
>
> I have assembled some instructions on how to run multipsk + kgk-sdr
> with the softrock:
>
> http://hb9tlk.selfip.com/softrock/index.html
>
I have had KGK-SDR running fine here with SoftRock RX/TX Ver 6.1 on 80-meter CW and today installed multipsk. Now, even with only kgk-sdr running and multipsk not running I hear a repeating loop of RFRFRFRF... coming from the speaker in CW. The kgk-sdr panadapter display shows CW signals in the pssband but I cannot hear them; changing modes does not work but the bandwidth shown on the panadapter does change by moce. Turning power on and off to the SoftRock does not stop the eternal string or "RF"s either. I did verify that the loop.dll is only in the windows/32 folder and even tried renaming it to loop1.dll and that did not stop the "RF"s string.

When I load multipsk it does see a strong signal and decodes it fairly we in CW as "RFRFRFRFRF...". It does appear that SR is in rx mode despite the :RF" string and I have confirmed this with an external transceiver.

It must be something I am doing wrong but I sure can't see what that is.

Any ideas?

73
Carl - WA0CQG
wa0cqg@...

887. Re: [kgksdr] Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-21 08:40:33 UTC
From: Duncan Munro
Topic: 884 Message: 887

wa0cqg wrote:
> It must be something I am doing wrong but I sure can't see what that
> is.
>
> Any ideas?

What is your AGC setting?

73,

Duncan
M0KGK

888. Fwd: [RTTY] The Email Robots are coming to RTTY!

Yahoo group: kgksdr
Date: 2007-03-21 13:15:57 UTC
From: Russell Blair
Topic: 888 Message: 888

--- Skip Teller <hteller@...> wrote:

> From: "Skip Teller" <hteller@...>
> To: <rtty@...>
> Date: Wed, 21 Mar 2007 08:31:03 -0400
> CC: Howard Teller <hteller@...>
> Subject: [RTTY] The Email Robots are coming to RTTY!
>
> ARRL is petitioning the FCC to allow Email Robots to
> take over the HF bands under 10m.
>
> You can read about the special meeting with the FCC
> here:
>
> http://mywebpages.comcast.net/hteller/11306-cont.pdf
>
> I urge all of you not to be complacent about this
> matter!
>
> As an invited member of the original ARRL committee
> from which the
> "bandwidth petition" sprang, I saw early on that the
> real intent of the
> committee, chaired by the originator of Winlink, was
> to turn control of the
> HF bands over to Winlink Email robots, and that
> "segmentation by bandwidth"
> was merely a guise for doing this. I even felt it
> necessary to issue a
> dissenting recommendation, which you may read here:
>
> http://www.zerobeat.net/bandplan-dissent.html
>
> Now the ARRL is trying again, and in so doing,
> divulging the true purpose
> behind their original "bandwidth petition", by
> taking advantage of the fact
> that CW has been dropped as a requirement, basically
> leaving only RTTY and
> Data as important modes in the eyes of the ARRL. You
> may notice the complete
> absence of CW as a mode in the table of HF modes
> attached to the ARRL's
> Ex-parte attempted modification to RM-11306, which
> may or may not actually

> be allowed, since it basically scraps the concept of
> segmentation by
> bandwidth and preserves segmentation by mode for all
> bands under 10m. I
> don't see how the FCC can accept this magnitude of
> change to RM-11306
> without requiring a totally new petition and comment
> period.
>
> However, just in case they do, I have put together a
> simple explanation of
> how to file a comment and I strongly urge each one
> of you to file a comment
> NOW if you value your ability to enjoy RTTY and CW
> in the future. Please do not be
> complacent and assume everything will be OK! Just
> take a couple of minutes
> to file a comment. Here is a sample form to follow:
>
> http://mywebpages.comcast.net/hteller/comment.htm
>
> A flood of comments DOES influence the FCC. It
> worked to keep the robots off the
> phone bands, so now we must again work to keep them
> from taking over the
> RTTY and CW activity areas.
>
> If you want to enjoy RTTY contesting and DXing in
> the future, please help by simply clicking here:
> http://gullfoss2.fcc.gov/prod/ecfs/upload_v2.cgi
> and commenting NOW!
>
> 73, Skip KH6TY
>
> _____
> RTTY mailing list
> RTTY@...
> http://lists.contesting.com/mailman/listinfo/rtty
>

==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

_____
Looking for earth-friendly autos?

Browse Top Cars by "Green Rating" at Yahoo! Autos' Green Center.
http://autos.yahoo.com/green_center/

889. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-21 13:24:21 UTC
From: wa0cqg
Topic: 884 Message: 889

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> wa0cqg wrote:
> > It must be something I am doing wrong but I sure can't see what
that
> > is.
> >
> > Any ideas?
>
> What is your AGC setting?
>
> 73,
>
> Duncan
> M0KGK
>
Duncan -

AGC is at "manual" and if I change to anything else than "manual", such as medium the "RF" CW message stops and normal operation returns. I thought I had always run AGC in "Manual" previously but maybe not -- but in any event, that is the resolution for now.

Thanks for the suggestion.

73
Carl WA0CQG

890. Re: [kgksdr] Fwd: [RTTY] The Email Robots are coming to RTTY!

Yahoo group: kgksdr
Date: 2007-03-21 14:17:21 UTC
From: Duncan Munro
Topic: 888 Message: 890

Russell Blair wrote:

>> ARRL is petitioning the FCC to allow Email Robots to
>> take over the HF bands under 10m.

Hi Russell,

Not sure quite what this has to do with KGKSDR ???

73,

Duncan
M0KGK

891. Re: [kgksdr] Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-21 14:21:09 UTC
From: Duncan Munro
Topic: 884 Message: 891

wa0cqg wrote:

> AGC is at "manual" and if I change to anything else than "manual",
> such as medium the "RF" CW message stops and normal operation
> returns. I thought I had always run AGC in "Manual" previously but
> maybe not -- but in any event, that is the resolution for now.

Hi Carl,

Manual AGC is best avoided. At the time, It seemed like a good idea to
put it on there, but it has limited advantages in a digital environment.

73,

Duncan
M0KGK

892. New web site

Yahoo group: kgksdr
Date: 2007-03-22 20:01:55 UTC
From: Richard Bown
Topic: 892 Message: 892

Hi All

You may have seen this mail before, but I'm reposting it as only ONE
person replied.

I'm trying to correlate ALL the SDR applications and weak signals
application on one site, by OS
distribution etc.
Basically, if you use your computer for decoding/ processing signals
from a radio, I'd like to know
which application your using.
So I don't miss any out can you send me details of which apps you use
and which OS and distribution
it uses.
I'll include Linux, Mac, and Win applications , it will show which apps
function crossplatform and which
crossplatform apps are needed to run them.
example:-

Winrad: native OS windows, Runs on Linux & Mac with crossover Office,
<hyperlink to home page>

Please when you send me info put in the subject line "[software-radio]"
this so it can be auto sorted as it arrives.
I have no access to MAC software but I do need which OS version it uses,
The same applies for
Windows, include which version ie. win3.1, win95,win 98,
win2000,winXP,win vista.
Linux please include which distribution, Debian & clones,Fedora,
Mandriva & clones, Redhat & clones
Suse and clones,....etc.
Also for linux please include if the package is available as a .deb, RPM
or tarball (.tar.gz,,tgz, bzip2 etc)

Anything you disagree with let me know, what I have is listed on
www.gb7tf.ath.cx
If you think I've missed any of the lists please cross post.

Thanks & 73
Richard G8JVM

richard.bown@...
www.software-radio.org.uk
The above page is waiting upload, look at www.gb7tf.ath.cx

893. Re: [kgksdr] New web site

Yahoo group: kgksdr
Date: 2007-03-22 21:04:45 UTC
From: Duncan Munro
Topic: 892 Message: 893

Richard Bown wrote:

> Anything you disagree with let me know, what I have is listed on
> www.gb7tf.ath.cx
> If you think I've missed any of the lists please cross post.

Hi Richard,

Have had a look at the list and see you have XP as OS that KGKSDR will primarily run on, can you please add:

Windows 2000
Windows Vista
Windows Me
Windows 98SE

As you probably know the ASIO is in the process of being replaced by MME so should go back to being compatible on Linux.

73,

Duncan
M0KGK

894. Re: [kgksdr] New web site

Yahoo group: kgksdr
Date: 2007-03-22 21:15:37 UTC
From: Richard Bown
Topic: 892 Message: 894

Duncan Munro wrote:
>
> Richard Bown wrote:
>
> > Anything you disagree with let me know, what I have is listed on
> > www.gb7tf.ath.cx
> > If you think I've missed any of the lists please cross post.
>
> Hi Richard,
>
> Have had a look at the list and see you have XP as OS that KGKSDR will
> primarily run on, can you please add:
>
> Windows 2000
> Windows Vista
> Windows Me
> Windows 98SE
>
> As you probably know the ASIO is in the process of being replaced by MME
> so should go back to being compatible on Linux.
>
> 73,
>
> Duncan
> M0KGK
>
>
OK , will do , I'll put win98SE or later

73 Richard

895. test 1

Yahoo group: kgksdr
Date: 2007-03-23 08:33:55 UTC
From: Richard Bown
Topic: 895 Message: 895

Hi All
Sorry about the test mail, I could only see the mail I sent last night
one one mail group.

Thanks & 73
Richard G8JVM

richard.bown@...
www.software-radio.org.uk
The above page is waiting upload, look at www.gb7tf.ath.cx

896. test 2

Yahoo group: kgksdr
Date: 2007-03-23 08:34:59 UTC
From: Richard Bown
Topic: 896 Message: 896

Hi All
Sorry about the test mail, I could only see the mail I sent last night
one one mail group.

This time I've used CC instead of to

Thanks & 73
Richard G8JVM

richard.bown@...
www.software-radio.org.uk
The above page is waiting upload, look at www.gb7tf.ath.cx

897. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-25 02:11:38 UTC
From: qrper723
Topic: 884 Message: 897

Hi,

I've downloaded MultiPSK & loop.dll.
I copied loop.dll into KGKSDR / MultiPSK / windows/system32
3 folders.

I boot the KGKSDR with no problem anf then activate MultiPSK
and appear its "configuration" menu, I press "hb9tlk Sdr interface"
/ "correction" buttons.

Then I push the "RxTx" button...but no spectrum appears in MultiPSK
display. Maybe the sound input setting is wrong.

Is there any other setting?
Any suggestions are welcome.

Thanks.

ja9mat hidehiko.

--- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@...> wrote:
>
>
> The new Multipsk version for KGK-SDR allows digi-mode operation with
> single soundcard configuration. Multipsk will do a lot of digi-modes,
> including psk, rtty, mfsk, throb, olivia, domino, CW etc...
>
> Get it here:
> http://f6cte.free.fr/
>
> Get the new loop.dll here:
> http://hb9tlk.selfip.com/softrock/loopdll.zip
>
> install the loop.dll in the windows/system32 folder (and nowhere
> else), then start kgk-sdr and multipsk. In multipsk press the
> "hb9tlk-sdr-interface" button and then "rxtx-screen".
>
> Be careful about the mic-setting on tx. It has to be very low for
> data modes to get a clean tx signal.

898. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-25 05:54:01 UTC
From: jabauzit
Topic: 884 Message: 898

--- In kgksdr@yahoogroups.com, "qrper723" <qrper72@...> wrote:
>
>
> Hi,
>
> I've downloaded MultiPSK & loop.dll.
> I copied loop.dll into KGKSDR / MultiPSK / windows/system32
> 3 folders.
>

Leave only loop.dll in the System32 directory and delete ALL other occurrences of loop.dll and everything should be fine.

Jean-Claude PJ2BVU

899. Re: New Multipsk version for KGK-SDR

Yahoo group: kgksdr
Date: 2007-03-25 08:08:38 UTC
From: qrper723
Topic: 884 Message: 899

Hi Jean-Claude,

Thanks for your help,You are correct!

Now I can operate all digital modes with V6.1 RxTx SDR.
MultiPSK can use Japanese Language (shift-JIS code) and
I'm glad because the WinPSK does not support Japanese.

I made the first QSO with PSK31 on 40m band in Japanese
and no problem.

73, ja9mat Hidehiko.

> Leave only loop.dll in the System32 directory and delete ALL other
> occurrences of loop.dll and everything should be fine.

900. Simple front end for kgksdr

Yahoo group: kgksdr
Date: 2007-03-27 15:34:17 UTC
From: kanewderfish
Topic: 900 Message: 900

Hi gang,
I have been playing around with the simple direct conversion front end as seen at:

http://www.qrz.lt/ly1gp/SDR/

See the "Tiny SDR"

It is surprising what I can hear with this minimal setup. I modified the values to 10MHz to tune the 31m SWBC band. While it suffers from lots of LO pulling, poor I/Q phasing, and ambiguous setting of the pots, it is an interesting start (the author of the Web page states many of the same caveats).

I plan to build up an LO with more isolation, add better front end filtering, and a couple of opamp AF amps on the outputs.

Anyone have any ideas for the 90 degree phase shift networks? I'd like to stay with passive, or at least analog, rather than digital such as used in the SoftRocks.

Now if only there was something interesting to listen to on SWBC....I miss the old days with VOA, BBC, RSA, HCJB.....
Anyone remember the VOA Jazz Hour? :)

Bob WB0POQ

901. Re: Simple front end for kgksdr

Yahoo group: kgksdr
Date: 2007-03-30 08:58:19 UTC
From: Serge N. Poloupanov
Topic: 900 Message: 901

--- In kgksdr@yahoogroups.com, "kanewderfish" <kanewderfish@...> wrote:
>
> Hi gang,
...
> Now if only there was something interesting to listen to on
> SWBC....I miss the old days with VOA, BBC, RSA, HCJB.....
> Anyone remember the VOA Jazz Hour? :)

Yes, Bob! I miss too :-(
VOA Jazz Hour with Willis Conover. It was great! I still remember his voice.

Serge RL3AW

902. Re: [kgksdr] Simple front end for kgksdr

Yahoo group: kgksdr
Date: 2007-04-01 18:42:16 UTC
From: k5nwa
Topic: 900 Message: 902

A very nice site, good work on your radios.

Keep us posted on your progress.

At 10:34 AM 3/27/2007, you wrote:

>Hi gang,
>I have been playing around with the simple direct conversion front
>end as seen at:
>
><http://www.qrz.lt/ly1gp/SDR/>http://www.qrz.lt/ly1gp/SDR/
>
>See the "Tiny SDR"
>
>It is surprising what I can hear with this minimal setup. I
>modified the values to 10MHz to tune the 31m SWBC band. While it
>suffers from lots of LO pulling, poor I/Q phasing, and ambiguous
>setting of the pots, it is an interesting start (the author of the
>Web page states many of the same caveats).
>
>I plan to build up an LO with more isolation, add better front end
>filtering, and a couple of opamp AF amps on the outputs.
>
>Anyone have any ideas for the 90 degree phase shift networks? I'd
>like to stay with passive, or at least analog, rather than digital
>such as used in the SoftRocks.
>
>Now if only there was something interesting to listen to on
>SWBC....I miss the old days with VOA, BBC, RSA, HCJB.....
>Anyone remember the VOA Jazz Hour? :)
>
>Bob WB0POQ
>
>

Cecil Bayona
KD5NWA
www.qrpradio.com

903. Direct ASIO support for Audigy and other SoundBlasters available from Creative

Yahoo group: kgksdr
Date: 2007-04-05 01:42:45 UTC
From: Rick Meyer
Topic: 903 Message: 903

The latest drivers from Creative, the makers of SoundBlaster and Audigy soundcards now has ASIO support built-in, so that in principle it is no longer necessary to use ASIO4ALL. The list of Audigy cards supported is on their webpage:

http://193.95.171.84/SRVS/CGI-BIN/WEBCGI.EXE/,/?St=587,E=0000000000212312110,K=0,Sxi=8,Case=obj(2378),Kb=ww_english_add,VARSET=ws:http://us.creative.com/

It says the driver supports:

* Sound Blaster X-Fi series (excluding Sound Blaster X-Fi Xtreme Audio)
* Sound Blaster Audigy 4 Pro
* Sound Blaster Audigy 2 ZS Series
* Sound Blaster Audigy 2 Series (excluding Sound Blaster Audigy 2 LS)
* Sound Blaster Audigy Series

Many of Creative's soundcards also support the ASIO 2.0 spec.

I am using this new driver with an older Audigy (1) Platinum eX card, KGKSDR 1.1, and SoftRock RXTX 6.1. When starting KGKSDR you get a error message stating that "the audio input is not activated." Don't let that stop you.

In the Transceiver Options Driver menu, the driver appears as "Creative ASIO," and there are many options available under each of the various soundcard settings. I can receive (usually) by using "Analog Mix L / Analog Mix R" under the RXIQ Input setting, and "Front L/R / Front L/R" for the Speaker Out setting. This setting allow me to receive, usually, but not always, as it is a little flaky.

I haven't found a way to transmit to the SoftRock without crashing the KGKSDR software.

If you want to experiment with this driver, it's here:

http://us.creative.com/support/downloads/

It would be very useful to have a reliable interface to this driver, since ASIO4ALL would no longer have to be used, and there are many available ways to configure your soundcard with the new driver, but I guess a little debugging would be required.

904. CW with Soft Rock RXTX?

Yahoo group: kgksdr
Date: 2007-04-06 13:08:49 UTC
From: geoffrey_cottrell
Topic: 904 Message: 904

Hello Group

As a newcomer, please can someone tell me if I need a separate
sidetone oscillator to run CW with soft rock RXTX and a single FA-66 card?

thanks

73
Geoff
G3XGC

905. Re: [kgksdr] CW with Soft Rock RXTX?

Yahoo group: kgksdr
Date: 2007-04-06 13:17:10 UTC
From: Duncan Munro
Topic: 904 Message: 905

geoffrey_cottrell wrote:
> Hello Group
>
> As a newcomer, please can someone tell me if I need a separate
> sidetone oscillator to run CW with soft rock RXTX and a single FA-66 card?

Hi Geoff,

The FA-66 is a multi channel card so a separate sidetone is not compulsory. There are various RX monitor options which can give you a sidetone, either synthetically or by monitoring the TX.

73,

Duncan
M0KGK

906. Re: [kgksdr] Simple front end for kgksdr

Yahoo group: kgksdr
Date: 2007-04-06 14:03:31 UTC
From: Miura Kazunori
Topic: 900 Message: 906

Hello Bob

Your ZetaSDR become more sensitive with 74VHC4052N.
I am making Soft66DB2 with 74VHC4066.
It became more sensitive from 74HC4066.

Please visit my page.

http://zao.jp/radio

73
JA7TDO

kanewderfish wrote:
>
>
> Hi gang,
> I have been playing around with the simple direct conversion front
> end as seen at:
>
> http://www.qrz.lt/ly1gp/SDR/ <http://www.qrz.lt/ly1gp/SDR/>
>
> See the "Tiny SDR"
>
> It is surprising what I can hear with this minimal setup. I
> modified the values to 10MHz to tune the 31m SWBC band. While it
> suffers from lots of LO pulling, poor I/Q phasing, and ambiguous
> setting of the pots, it is an interesting start (the author of the
> Web page states many of the same caveats).
>
> I plan to build up an LO with more isolation, add better front end
> filtering, and a couple of opamp AF amps on the outputs.
>
> Anyone have any ideas for the 90 degree phase shift networks? I'd
> like to stay with passive, or at least analog, rather than digital
> such as used in the SoftRocks.
>
> Now if only there was something interesting to listen to on
> SWBC....I miss the old days with VOA, BBC, RSA, HCJB.....
> Anyone remember the VOA Jazz Hour? :)
>
> Bob WB0POQ
>

907. Re: CW with Soft Rock RXTX?

Yahoo group: kgksdr
Date: 2007-04-06 14:34:32 UTC
From: geoffrey_cottrell
Topic: 904 Message: 907

Thanks for info Duncan

Still have some issues:

1) I can hear my softrock ssb in a separate RX tuned to QRG clso to
rock freq (1842 kHz), but the freq emitted does not seem to depend on
where the SDR VFO is positioned (ie the vertical green bar)

2) In CW mode, if I key the CW (set up like as G0BBL's minimum config)
by joining RTS and CTS, I get an increase in noise around rock freq,
but not a pure CW tone. Also the freq 'band' emitted does not seem to
depend on where the SDR VFO is positioned.

Is this sensible? (see below for details)

73
Geoff

My sw connections are:
Morse key Com 1 CTS
PTT in CTS
Comm Hi RTS
PTT to TX DTR

I Key across CTS and RTS with simple ungrounded switch to test.
the hw serial connections are PTT input (hi for TX) on softrock board
to DTR and ground.

The FA66 sockets used are Line Out 1&2 and Line In 3&4. Mic to front
in Input 1 /L.

The FA66 settings are
RXIQ ip: MicIn1 l&r
Spkr out: LineOut 1&2 l&r
Mic ip: Mic In 1 l&r
TXIQ out: Lineout l&r
48k sampling

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> geoffrey_cottrell wrote:
> > Hello Group
> >
> > As a newcomer, please can someone tell me if I need a separate
> > sidetone oscillator to run CW with soft rock RXTX and a single
FA-66 card?
>

> Hi Geoff,
>
> The FA-66 is a multi channel card so a separate sidetone is not
> compulsory. There are various RX monitor options which can give you a
> sidetone, either synthetically or by monitoring the TX.
>
> 73,
>
> Duncan
> M0KGK
>

908. Re: 96KHz sample rate

Yahoo group: kgksdr
Date: 2007-04-08 00:02:05 UTC
From: Gary Winblad
Topic: 685 Message: 908

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> kanewderfish wrote:
>
> > Hi Duncan,
> > That did the trick. Thanks! BTW, in the process of attempting to
> > solve this problem I tried doing a couple of fresh installs of the
> > application. It appears that the Windows uninstaller does not remove
> > all the components of the app at least on >my< machine. Do you
have a
> > list of the directorys, registry keys etc that your program creates?
> > I'd like to make sure there are not any bits and pieces of an old
> > install floating around on my machine.
>
> If you go into regedit, the keys are:
>
> HKEY_CURRENT_USER
> Software
> Duncan Amplification
> M0KGK IQ Decoder
>
> The key M0KGK IQ Decoder should be deleted along with anything
> underneath it.
>
> On directories, the only ones it creates are the one in the Program
> Files folder and also the one where the maps are stored.
Optionally, it
> may create a folder under My Documents called KGKSDR_wav which is
> created if the software has been asked to record either IQ data or
audio
> data.
>
> 73
>
> Duncan
> M0KGK
>

Duncan,
I have this same (or similar)problem. I updated to your latest
receiver software for my V5 Softrock. It was working great.
Then I created a new "frequency". It was just a couple KHz away but
it lost the cal I had been auto collecting. So I tried for the first
time to do a manual cal. After one or two points it got a divide by
zero error. After that (as I recall anyway) it just broke. After

trying everything I could think of, I did an un-install and a re-install, I figured that had to fix it. It DIDN'T, it now wouldn't even come up, well the small window came up and said "initialization complete" (IIRC) but the receiver window never would come up.

So, I searched the archives and found the above thread. I un-installed, deleted the keys, deleted the all the directories, searched my disk for any "KGK" files I didn't know about(didn't find any). So I re-installed KGKSDR. IT worked. I reconfigured and got it mostly back to the way I like to see it. It was receiving but without a good cal, but it seemed to to be collecting a few points. But as I was jumping around listening to signals on 40meters a window kept popping up saying.. something about divide by zero! So I gave up and came back later. Re-booted and this time the receiver window comes up but it won't turn on to receive.. it just hangs.

I am totally mystified. I love your software (I tried going back to Rocky but it is just terrible). What can I possibly do to remove the divide by zero and get a clean install. I am running XP Home BTW.

Gary
WB6OGD

Hey, in re-reading all the above, I noticed "the directory where the maps are stored".. uh, where is that??

909. OOPS. FORGET my last post

Yahoo group: kgksdr
Date: 2007-04-08 02:49:08 UTC
From: Gary Winblad
Topic: 909 Message: 909

My calibration folder was HIDDEN. Once I found it there was even a
text file that contained the cal file name that had the error.
I deleted that cal file and everything is better.

Gary
WB6OGD

910. KGKSDR and ASIO, WDM ...

Yahoo group: kgksdr
Date: 2007-04-08 07:20:50 UTC
From: jabauzit
Topic: 910 Message: 910

Good evening,

This question is for Duncan: what is the status of dropping ASIO from KGKSDR?

I still have the issue of the sound turning bad after a while and have to Quit/Restart the program.

Jean-Claude PJ2BVU

911. Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-08 12:10:44 UTC
From: jeanrenier2004
Topic: 911 Message: 911

Hello Duncan and all,

Probably you guys have already solved this a long while ago, I still struggling trying the get the basics working and spend already many hours doing that. So if any of you have some hints to give me, I'll be very grateful.
Here is my story, sorry for the rather lengthy description.

I have been experimenting (without transmitting on the air) with the SR40TRx with the following set up (a real rat's nest of wires and boxes):
- a desktop PC (AMD Athlon64 3500+, 1GByte DDR2 memory, sound: on board CM6501 and PCI SB Audigy SE), the OS is WinXP SP2
- running KGKSDR 1.1.0.59, single sound card mode, on the SB Audigy SE set at 96ks/s-24bit ASIO driver, KGKSDR uses COM1 for the PTT/key signals
- running Hamscope 1.55 using the on board CM6501 (whatever drivers and mode Hamscope chooses), Hamscope is set to COM4 for the PTT/key signals
- the SR40TRx board (obviously) fed on 12V (stabilized) and some hardware to involving switches and potentiometers to connect the two audio cards and the two COM ports (I will come back on this if there is some interest).
- a 80dB attenuator set up, involving an old oscilloscope and some home build power/frequency monitoring device.
- a laptop PC (HP nc6000, on board sound), the OS is WinXP SP2
- running KGKSDR decoder 1.0.1.33 using the onboard sound trough the microphone input (not very great, but ok for the purpose here)
- running Hamscope 1.55 in receiving mode only, both programs are connected using VAC 4.0.
Basically the laptop is used as a makeshift spectrum analyser.

The first and foremost use of this set up is to check the all functions of the SR40TRx and KGKSDR. Nothing to be said here, it performs as designed, absolutely great designs, both of them. I still have to find a way to measure accurately the mirror suppression and to set the I/Q fine tuning of the transmit part, but that is for later.
It works like a charm in SBB mode: a tone injected (signal generator) in the transmitter comes out like a whistle at the receiver side (admitted, receiving a -50dBm signal is not a great challenge). AM mode works also great, I didn't test FM though.

Coupling the Hamscope I ran however into the following isues:
- what is challenging a bit to me, is KGKSDR's spectrum display during transmit, it took me a while to realize that it still displays

the input spectrum (audio in this case). I am not sure it is of much
use , it would even be OK to stop or to freeze the display in order
to save CPU cycles
- when running Hamscope in Tx mode more strange things happen,
although it works in general and messages got across in PSK and
MFSK. However, at random moments, but with on average once in a few
seconds, the KGKSDR's spectrum display at the transmit side would
jump up by say 20 30dB during a split second. The spectrum display
at the receive side would follow of course and the message stream
would be corrupted for a few characters. Some times even the
Hamscope stream (which I monitor before it enters KGKSDR) would be
interrupted during a split second also.
Getting into the Windows Task Manager, I saw some 30 odd processes
running, mostly system related things.
The CPU usage (transmit side of course) is as follows KGKSDR in Rx:
44%, KGKSDR in Tx: 66%, KGKSDR + Hamscope in Rx: 49% and KGKSDR +
Hamscope in Tx: 79%.
Now, my PC is certainly not the most powerful, still I was hoping it
would be able to run in this configuration. Any suggestions there ?
I already tried to shut down as much things a could on the PC such I-
tunes, virus scanner, MSM, to no avail, though it looked like it was
a little bit better.
- an even more bizarre phenomenon occurs when adjusting the mic gain
in KGKSDR. Everything is ok when normal or even when in
the "yellow", besides the above hiccups. When in the "red"
everything remains so for 10 20 of seconds, but after a while the
spectrum display would remain high at the occasion of an hiccup and a
lot of high level spectrum lines would become visible on the
receiving side all over the entire band (48kHz). Reducing the mic
gain will not change anything and cycling through Rx will not help
either. Closing down KGKSDR and restarting it will get rid of this
phenomenon. Any suggestions here ?
I didn't experiment too much with Multipsk, but all suggest that I
have the same issues.

All the best,
Jean.

912. Re: [kgksdr] Re: CW with Soft Rock RXTX?

Yahoo group: kgksdr
Date: 2007-04-08 17:39:39 UTC
From: Duncan Munro
Topic: 904 Message: 912

geoffrey_cottrell wrote:
> Thanks for info Duncan
>
> Still have some issues:
>
> 1) I can hear my softrock ssb in a separate RX tuned to QRG clso to
> rock freq (1842 kHz), but the freq emitted does not seem to depend on
> where the SDR VFO is positioned (ie the vertical green bar)
>
> 2) In CW mode, if I key the CW (set up like as G0BBL's minimum config)
> by joining RTS and CTS, I get an increase in noise around rock freq,
> but not a pure CW tone. Also the freq 'band' emitted does not seem to
> depend on where the SDR VFO is positioned.
>
> Is this sensible? (see below for details)

Hi Geoff,

It's good to keep away from the Xtal frequency, especially on CW. I
believe the new Rocky TX has a red band in that area to warn people off,
it's something that may also find its way onto KGKSDR as this is a
constant source of trouble.

To cut a long story short, the Softrock cannot transmit near the Xtal
frequency because the soundcard cannot output down to DC.

73,

Duncan
M0KGK

913. Re: [kgksdr] Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-08 17:47:15 UTC
From: Duncan Munro
Topic: 911 Message: 913

jeanrenier2004 wrote:
> Coupling the Hamscope I ran however into the following isues:
> - what is challenging a bit to me, is KGKSDR's spectrum display
> during transmit, it took me a while to realize that it still displays
> the input spectrum (audio in this case). I am not sure it is of much
> use , it would even be OK to stop or to freeze the display in order
> to save CPU cycles

Hi Jean, this is right - the RX can work during TX if you want to
monitor things. Yes you can save CPU by turning the monitoring off (and
most people don't want or need it anyway).

> - when running Hamscope in Tx mode more strange things happen,
> although it works in general and messages got across in PSK and
> MFSK. However, at random moments, but with on average once in a few
> seconds, the KGKSDR's spectrum display at the transmit side would
> jump up by say 20?30dB during a split second. The spectrum display
> at the receive side would follow of course and the message stream
> would be corrupted for a few characters. Some times even the
> Hamscope stream (which I monitor before it enters KGKSDR) would be
> interrupted during a split second also.
> Getting into the Windows Task Manager, I saw some 30 odd processes
> running, mostly system related things.
> The CPU usage (transmit side of course) is as follows KGKSDR in Rx:
> 44%, KGKSDR in Tx: 66%, KGKSDR + Hamscope in Rx: 49% and KGKSDR +
> Hamscope in Tx: 79%.

79% might be too close - if windows decides to "cough" it might be close
enough to cause a blip in transmission.

> Now, my PC is certainly not the most powerful, still I was hoping it
> would be able to run in this configuration. Any suggestions there ?
> I already tried to shut down as much things a could on the PC such I-
> tunes, virus scanner, MSM, ?to no avail, though it looked like it was
> a little bit better.
> - an even more bizarre phenomenon occurs when adjusting the mic gain
> in KGKSDR. Everything is ok when normal or even when in
> the "yellow", besides the above hiccups. When in the "red"
> everything remains so for 10?20 of seconds, but after a while the
> spectrum display would remain high at the occasion of an hiccup and a
> lot of high level spectrum lines would become visible on the
> receiving side all over the entire band (48kHz). Reducing the mic
> gain will not change anything and cycling through Rx will not help
> either. Closing down KGKSDR and restarting it will get rid of this
> phenomenon. Any suggestions here ?

I'm going to take a wild guess that if it latches like this, you may have an output getting back to an input. Could some RF be getting in somewhere???

Other things are audio loop like using a single soundcard and recording 'what-u-hear', but I guess you've checked the input channels or will have set them through the Hardware2 tab on the options.

73,

Duncan
M0KGK

914. Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-08 21:31:11 UTC
From: philip_g7jur
Topic: 914 Message: 914

Hello Duncan.

I am having this problem with KGKSDR. On CW and Tune, I am getting full TX power. But when TXing on SSB the TX power seems quite low, even with the mic level showing max.

Thanks Philip g7jur.

915. Re: [kgksdr] Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-08 23:20:32 UTC
From: Duncan Munro
Topic: 914 Message: 915

philip_g7jur wrote:
> Hello Duncan.
>
> I am having this problem with KGKSDR. On CW and Tune, I am getting
> full TX power. But when TXing on SSB the TX power seems quite low,
> even with the mic level showing max.

Hi Philip,

Which build are you using? (It's in Help|About).

73,

Duncan
M0KGK

916. Re: Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-09 07:39:42 UTC
From: philip_g7jur
Topic: 914 Message: 916

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

Hello Duncan.

Its build 59.

Philip.

>
> philip_g7jur wrote:
> > Hello Duncan.
> >
> > I am having this problem with KGKSDR. On CW and Tune, I am getting
> > full TX power. But when TXing on SSB the TX power seems quite low,
> > even with the mic level showing max.
>
> Hi Philip,
>
> Which build are you using? (It's in Help|About).
>
> 73,
>
> Duncan
> M0KGK
>

917. Re: [kgksdr] Re: Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-09 10:42:34 UTC
From: Duncan Munro
Topic: 914 Message: 917

philip_g7jur wrote:
>>> I am having this problem with KGKSDR. On CW and Tune, I am getting
>>> full TX power. But when TXing on SSB the TX power seems quite low,
>>> even with the mic level showing max.

> Its build 59.

The average power on SSB can end up quite low anyway compared to CW.
Does it go up any when you select the clip option?

Let me know how you're checking the power, also when you say "mic level showing max", is that the mic level slider or the bit that overlays the S meter?

Final couple of questions: what mic and soundcard are you using?

73,

Duncan
M0KGK

918. Re: Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-09 11:56:55 UTC
From: philip_g7jur
Topic: 914 Message: 918

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> philip_g7jur wrote:
> >>> I am having this problem with KGKSDR. On CW and Tune, I am getting
> >>> full TX power. But when TXing on SSB the TX power seems quite low,
> >>> even with the mic level showing max.
>
> > Its build 59.
>
> The average power on SSB can end up quite low anyway compared to CW.
> Does it go up any when you select the clip option?
>
> Let me know how you're checking the power, also when you say "mic level
> showing max", is that the mic level slider or the bit that overlays the
> S meter?
>
> Final couple of questions: what mic and soundcard are you using?
>
> 73,
>
> Duncan
> M0KGK
>
Hello Duncan.

I am measuring the power level with a scope and dummy load.

I am using a Delta 44 with a moving coil mic.
I was refering the mic level slider overlay.
In KGKSDR clip off is 20% of peak power. that is power in CW.
Clip on it is 60%.

In POWER SDR the peak power is 90%.

Many thank Philip g7jur.

919. Re: [kgksdr] Re: Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-09 12:46:42 UTC
From: Duncan Munro
Topic: 914 Message: 919

philip_g7jur wrote:

> I am using a Delta 44 with a moving coil mic.

Hi Philip, I think that's your problem.

The output of an MC mic is way too low, I can just about cut it on my setup here by using a transformer and setting Variable Signal Levels on the D44 control panel to -10.

The cool way to drive a D44, or any card requiring line level rather than mic signals, is to use a small preamp. Something like the following should do the trick:

http://www.maplin.co.uk/Module.aspx?ModuleNo=37746

73,

Duncan
M0KGK

920. Re: Low power on SSB TX

Yahoo group: kgksdr
Date: 2007-04-09 15:56:12 UTC
From: philip_g7jur
Topic: 914 Message: 920

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> philip_g7jur wrote:
>
> > I am using a Delta 44 with a moving coil mic.
>
> Hi Philip, I think that's your problem.
>
> The output of an MC mic is way too low, I can just about cut it on my
> setup here by using a transformer and setting Variable Signal Levels on
> the D44 control panel to -10.
>
> The cool way to drive a D44, or any card requiring line level rather
> than mic signals, is to use a small preamp. Something like the
> following should do the trick:
>
> http://www.maplin.co.uk/Module.aspx?ModuleNo=37746
>
> 73,
>
> Duncan
> M0KGK
>
Thanks Duncan.
I shell make up a small pre-amp soon.
Philip g7jur.

921. Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-09 19:06:21 UTC
From: Jean Taeymans
Topic: 911 Message: 921

Hello Duncan,

Thank you very much for your reply and hints, I am really grateful.

I managed to switch off the spectrum display (in CW monitor style) during Tx and ran some more test, see the table of the CPU loading here below (on my AMD Athlon64 3500+):
Rx @ 48ks/s Tx @ 48ks/s Rx @ 96ks/s Tx @ 96ks/s
KGKSDR 28% 23% 43% 46%
KGKSDR+Hamscope 33% 33% 49% 54%

The CPU loading is now almost equal for Rx and Tx (which is like it should I guess), Hamscope adds less than 10% to it (which is also ok).
However the hiccups during transmitting are still present even when the CPU load is at 33% (and this should not be the case, I am sure). Killing a few background processes (especially the virus scanner) improved the situation quite some bit, the frequency of the hiccups reduced to about one every 10s (the text transmission in PSK being now almost 100%). It looks like KGKSDR does not get the CPU cycles it requires during some split seconds.
Has anybody in the group had a similar experience ? With any other PSK program ?
Some 33 Windows related processes are still busy according to the Task Manager, one of them must obviously be responsible for this hiccups, but which one ? Can one increase/reduce the priority a process takes under WindowsXP ? Or is it maybe Hamscope itself ? Anybody a suggestion ?

As for the overload phenomenon, your suggestion was right on the spot, thanks for that also. The issue almost instantly disappeared (together with a large part of the zero frequency bump in the middle of the spectrum display at the receiving side) when I fed the laptop on its batteries, disconnecting its connection to the mains power. It must have been a loop trough the mains power in my set up.

All the best,
Jean.

922. Re: [kgksdr] Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-09 19:53:58 UTC
From: Duncan Munro
Topic: 911 Message: 922

Jean Taeymans wrote:

> Some 33 Windows related processes are still busy according to the Task
> Manager, one of them must obviously be responsible for this hiccups, but
> which one ? Can one increase/reduce the priority a process takes under
> WindowsXP ? Or is it maybe Hamscope itself ? Anybody a suggestion ?

Hi Jean,

What buffer sizes are you using? Normally there can be a little gap if
the buffer sizes are just that bit too small.

73,

Duncan
M0KGK

923. Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-10 13:00:09 UTC
From: n3hkn
Topic: 911 Message: 923

You could try placing KGKSDR at a higher priority using the Task Manager. Harmless if it works. I had a 1 watt QSO for 20 minutes with no drop outs on a 2ghz PC. Zone Alarm firewall, an anti-virus, and an anti-root/keylogger running along with the usual array of processes awaiting resurrection. I have never found any issues with the myriad of standby process awaiting activity.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Jean Taeymans wrote:
>
> > Some 33 Windows related processes are still busy according to the
Task
> > Manager, one of them must obviously be responsible for this
hiccups, but
> > which one ? Can one increase/reduce the priority a process takes
under
> > WindowsXP ? Or is it maybe Hamscope itself ? Anybody a suggestion ?
>
> Hi Jean,
>
> What buffer sizes are you using? Normally there can be a little gap if
> the buffer sizes are just that bit too small.
>
> 73,
>
> Duncan
> M0KGK
>

924. Re: [kgksdr] Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-10 17:10:53 UTC
From: Duncan Munro
Topic: 911 Message: 924

n3hkn wrote:
> You could try placing KGKSDR at a higher priority using the Task
> Manager. Harmless if it works.

Changing priorities is best avoided. All that will happen is the thread that runs the GUI will run at a higher priority and the thread that actually does the real processing (initiated by the ASIO driver) will get second prize... It will have the opposite effect to that intended.

> I had a 1 watt QSO for 20 minutes with
> no drop outs on a 2ghz PC. Zone Alarm firewall, an anti-virus, and an
> anti-root/keylogger running along with the usual array of processes
> awaiting resurrection. I have never found any issues with the myriad
> of standby process awaiting activity.

Jeans machine should be capable of superb performance, any glitches I've seen so far on a machine of that spec are down to buffers too small.

For example, 96kHz 256 sample buffer is only 2.6mS worth so Windows can only go 'out to lunch' for a very short time before you get a dropout.

I've found 512 samples is good on very powerful machines, and 1024 samples on slower machines.

73,

Duncan
M0KGK

925. Re: [kgksdr] Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-10 17:51:03 UTC
From: Jose A. Amador
Topic: 911 Message: 925

I have a curiosity and is about AMD vs. Intel CPU' s.

Did the origin of this thread occur with an AMD CPU?

I think it is some sort of buffer overflow, and since AMD rates
their CPU' s in " equivalent GHz" I would like to understand if
it has an impact on real time tasks vs. more common tasks, like
running some office package.

Maybe equivalences are not so equivalent....

That' s it, just my curiosity.

73,

Jose, CO2JA

Duncan Munro wrote:

> n3hkn wrote:
> > You could try placing KGKSDR at a higher priority using the Task
> > Manager. Harmless if it works.
>
> Changing priorities is best avoided. All that will happen is the
> thread that runs the GUI will run at a higher priority and the thread
> that actually does the real processing (initiated by the ASIO driver)
> will get second prize... It will have the opposite effect to that
> intended.
>
> > I had a 1 watt QSO for 20 minutes with no drop outs on a 2ghz PC.
> > Zone Alarm firewall, an anti-virus, and an anti-root/keylogger
> > running along with the usual array of processes awaiting
> > resurrection. I have never found any issues with the myriad of
> > standby process awaiting activity.
>
> Jeans machine should be capable of superb performance, any glitches
> I've seen so far on a machine of that spec are down to buffers too
> small.
>
> For example, 96kHz 256 sample buffer is only 2.6mS worth so Windows
> can only go 'out to lunch' for a very short time before you get a
> dropout.
>
> I've found 512 samples is good on very powerful machines, and 1024
> samples on slower machines.

>
> 73,
>
> Duncan M0KGK

V Conferencia Internacional de Energ?a Renovable, Ahorro de Energ?a y Educaci?n Energ?tica.
22 al 25 de mayo de 2007
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.cujae.edu.cu/eventos/cier

Participe en Universidad 2008.
11 al 15 de febrero del 2008.
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.universidad2008.cu

926. Re: [kgksdr] Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-10 20:26:44 UTC
From: Duncan Munro
Topic: 911 Message: 926

Jose A. Amador wrote:
> I have a curiosity and is about AMD vs. Intel CPU' s.
>
> Did the origin of this thread occur with an AMD CPU?
>
> I think it is some sort of buffer overflow, and since AMD rates
> their CPU' s in " equivalent GHz" I would like to understand if
> it has an impact on real time tasks vs. more common tasks, like
> running some office package.
>
> Maybe equivalences are not so equivalent....
>
> That' s it, just my curiosity.

Hi Jose,

I'm still quite sure the problem is down to buffer sizes as I have an identical CPU to Jean and know that it absolutely rocks - 96kHz is a breeze for it.

Both my own machines here are AMD, the shack machine on which I use KGKSDR is Athlon 2600 (1.93GHz) and the office machine used for development is Athlon 64 3500 (2.21GHz).

Despite the two clock rates being fairly close, the 3500 uses a lot less CPU.

Here are some figures I've just measured for build 59 RX on SSB with HB9TLK loop.dll in use, Windows XP home, spectrum fill on, spectrum filter on, polyphase FFT off, and all DSP functions off:

AMD3500 RX @ 48KHz 23-29% [19-24%]
AMD3500 RX @ 96kHz 34-46% [34-37%]

AMD2600 RX @ 48KHz 45-51% [43-44%]
AMD2600 RX @ 96KHz 60-68% [62-63%]

The figures in % are the %CPU used indicator of KGKSDR, the figures in [brackets%] are the %CPU for kgksdr11.exe as shown by Windows task manager, and a better value to use for comparison.

The 3500 is almost twice as quick but only clocked 14% faster than the 2600 so I guess I believe the marketing guys. BTW, the 64 bit feature is not being used under Windows XP.

It would be nice to get some Intel figures alongside these if anyone fancies running through the same tests. Clearly, the options above

would need to be the same for a meaningful comparison.

73,

Duncan
M0KGK

927. Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-12 19:04:08 UTC
From: Jean Taeymans
Topic: 911 Message: 927

Hello Ducan and all,

Sorry for my late reply, I have a few other chores now and then.

Ok, the buffer size as indicated by KGKSDR was 1024, I could not change it as it was greyed.
The one in ASIO4ALL was 512, increasing it to 1024, had little effect, the hiccups remain.

Anyway, I did some other experiments in the mean time.
I "inherited" someone's old PC and as it happens the CPU is an AMD Athlon XP 2600+. I moved the SB Audigy sound card to this PC and I installed an old version of WinXP (pre SP1) on it , a full and clean install. I took care not to connect the PC to the Internet (disabling the ethernet adapter) so that there would be no patches, no upgrade, no MSM, no virus scanner, fire walls or other stuff that could interfere. Windows Task Manager denotes only 19 active processes during idle (compared to 31 on the other computer).
Besides the drivers I installed two programs only: KGKSDR and Hamscope. Then I did the usual set ups and ran the same experiments as during the weekend on the other computer. And yes, the hicups disappeared entirely, I could run KGKSDR in 96ks/s until the eternity without a glitch.
I am an happy man again now, though having a separate PC for my experiments with SDR may be a bit overkill.

I am not an expert but for me the source of the hiccups is possibly one or another high priority background program that has been installed together with all the stuff that comes from the Internet. I don't necessarily mean viruses, but possibly the virus scanner itself, Windows Defender, ... all suggestions welcome.

For the statistics, herewith the table of the CPU loading here below (on the AMD Athlon XP 2600+):
Rx @ 48ks/s Tx @ 48ks/s Rx @ 96ks/s Tx @ 96ks/s
KGKSDR 36% 23% 55% 38%
KGKSDR+Hamscope 40% 25% 60% 43%
The receive figures seems more or less agreeing with Ducan's figures for his 2600+ and following more or less the clock ratio between both CPU's (which is not in agreement with Ducan's observations).
What is actually flabbergasting are the Tx figures, they are less than for Rx on the 2600+ and even less than the 3500+ for both Rx or Tx. Anybody a suggestion ?

Best regards,
Jean.

928. Re: [kgksdr] Re: Connecting KGKSDR with Hamscope

Yahoo group: kgksdr
Date: 2007-04-12 19:24:34 UTC
From: Duncan Munro
Topic: 911 Message: 928

Jean Taeymans wrote:

> What is actually flabbergasting are the Tx figures, they are less than
> for Rx on the 2600+ and even less than the 3500+ for both Rx or Tx.
> Anybody a suggestion ?

Hi Jean,

Thanks for taking the time to run all the tests and glad to hear that your setup is now glitch free. I have an answer for the Tx figures, the Rx uses a lot more CPU than the TX. Examples of extra things it has to do are:

* More FFT's which are time consuming
* More complex image suppression
* Image data collection
* Spectrum display

With RX switched off during TX, the CPU load comes down. While putting the TX side together, I was seeing CPU as low as 6% on CW.

However... if you have RX monitoring on during transmit the CPU will go UP!

73,

Duncan
M0KGK

929. M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-12 23:08:05 UTC
From: aarhus_ca
Topic: 929 Message: 929

Hi
Ver 11.0.59....

Was working with AMD 64Dual core, and Delta...
Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....

'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;

Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.

I have downloaded and re-installed ASIO4ALL - which used to work ...
and now am at a loss - there is ABSOLUTELY no signal on it.

Any suggestions?

73 John VE3NFK

930. Re: [kgksdr] M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-12 23:31:09 UTC
From: Duncan Munro
Topic: 929 Message: 930

aarhus_ca wrote:
> Hi
> Ver 11.0.59....
>
> Was working with AMD 64Dual core, and Delta...
> Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....
>
> 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
>
> Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
>
> I have downloaded and re-installed ASIO4ALL - which used to work ...
> and now am at a loss - there is ABSOLUTELY no signal on it.
>
> Any suggestions?

Hi John,

Not sure... I know that ASIO4ALL has recently had an upgrade and I have
not upgraded to it :-)

Won't have a chance until Saturday, but I will try the new one and see
if that might be the issue here.

73,

Duncan
M0KGK

931. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-13 01:14:58 UTC
From: aarhus_ca
Topic: 929 Message: 931

Thanks Duncan - I'll wait :-)

ASIO4ALL ver 2.8 Beta 2

-- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> aarhus_ca wrote:
> > Hi
> > Ver 11.0.59....
> >
> > Was working with AMD 64Dual core, and Delta...
> > Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....
> >
> > 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
> >
> > Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
> >
> > I have downloaded and re-installed ASIO4ALL - which used to work ...
> > and now am at a loss - there is ABSOLUTELY no signal on it.
> >
> > Any suggestions?
>
> Hi John,
>
> Not sure... I know that ASIO4ALL has recently had an upgrade and I
have
> not upgraded to it :-)
>
> Won't have a chance until Saturday, but I will try the new one and see
> if that might be the issue here.
>
>
> 73,
>
> Duncan
> M0KGK
>

932. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-13 03:35:42 UTC
From: qrper723
Topic: 929 Message: 932

Hi,

Here also both of ASIO4ALL 2.8Beta1 and Beta2 do not work.
Receiving sound appears but it is uncontinuous. <on/off>
V2.8 works well.

ja9mat Hidehiko.

> Won't have a chance until Saturday, but I will try the new one and see
> if that might be the issue here.

933. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-13 03:37:15 UTC
From: qrper723
Topic: 929 Message: 933

Sorry correction.
V2.7 works well!

> V2.8 works well.

934. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-14 13:06:47 UTC
From: aarhus_ca
Topic: 929 Message: 934

Hi Duncan

I tried ASIO4ALL 2.7, and went to an older kgsdr - still 'nothing' on
the screen .. I deleted all the entries in 'documents-stetting - john
- applicationdata - duncan

PowerSDR still works with ASIO4ALL

Cheers

John

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> aarhus_ca wrote:
> > Hi
> > Ver 11.0.59....
> >
> > Was working with AMD 64Dual core, and Delta...
> > Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....
> >
> > 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
> >
> > Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
> >
> > I have downloaded and re-installed ASIO4ALL - which used to work ...
> > and now am at a loss - there is ABSOLUTELY no signal on it.
> >
> > Any suggestions?
>
> Hi John,
>
> Not sure... I know that ASIO4ALL has recently had an upgrade and I
have
> not upgraded to it :-)
>
> Won't have a chance until Saturday, but I will try the new one and see
> if that might be the issue here.
>
>
> 73,
>
> Duncan
> M0KGK
>

935. Thanks .....cw side tone question

Yahoo group: kgksdr
Date: 2007-04-14 13:35:20 UTC
From: g4tsn
Topic: 935 Message: 935

Hi

Have been using the softrock rxtx6.1 with great success on 40m/80m setup here is using cw data with multipsk and ssb all using kgksdr sound card is a cheap £20 sb audigy oem card running single card setup 96khz sample asio4all but have linked ...audio o/p from softrock back to i/p on on board sound running onboard purely as amplifier...i.e. without asio4all on onboard .....Oh nearly forgot have added extra jack i/p on rear of sound card using aux i/p connector on card normally used for cd i/p wired to new jack. So I can use mic connection on card and aux i/p for receiver i/p

Oh also built the irf510 fet amplifier shown on softrock files and get at 12 volts 13 watts o/p with the 1 watt drive

Have to say how impressed.... I am with it all congrats to everyone involved !!!

One question I get no cw side tone regardless of how I set kgkdr general settings ... any ideas ....not to much of a problem to me as at marine radio school many years ago we had to learn to send without a side tone but many people can't .....I will probably giving talk and demo soon at our radio club ....it is the only bit which does not work for me ...

Thanks

Jon G4TSN

936. Re: [kgksdr] Thanks .....cw side tone question

Yahoo group: kgksdr
Date: 2007-04-14 13:47:13 UTC
From: Duncan Munro
Topic: 935 Message: 936

g4tsn wrote:

> One question I get no cw side tone regardless of how I set kgkdr
> general settings ... any ideas ....

Hi Jon,

You are set up as single soundcard so KGKSDR will provide one output and one output only. This is used for IQ out during transmit so cannot be used for sidetone as well.

One potential solution is to enable the onboard souncard through ASIO4ALL and run as the normal 2 card setup. This will likely limit your activities to 48kHz samplerate maximum, but it will allow RX monitoring and/or sidetone monitor.

73,

Duncan
M0KGK

937. Re: Thanks .....cw side tone question

Yahoo group: kgksdr
Date: 2007-04-14 14:54:02 UTC
From: g4tsn
Topic: 935 Message: 937

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> g4tsn wrote:
>
> > One question I get no cw side tone regardless of how I set kgkdr
> > general settings ... any ideas ....
>
> Hi Jon,
>
> You are set up as single soundcard so KGKSDR will provide one
output and
> one output only. This is used for IQ out during transmit so cannot
be
> used for sidetone as well.
>
> One potential solution is to enable the onboard souncard through
> ASIO4ALL and run as the normal 2 card setup. This will likely
limit
> your activities to 48kHz samplerate maximum, but it will allow RX
> monitoring and/or sidetone monitor.
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan,

Thanks for the reply ....thats fine I understand what you are saying ...and yes if I enable asio4all on the onboard sound it limits both to 48Khz operation to both sound cards I think I may get another same card presumably it will then allow 96Khz for both ....not sure if this will ever change but I imagine its a feature with asio4all ....have to say the sb audigy oem card I am using does work well at 96Khz for price its very good...that seems to be difficult part deciding what sound card to go for .....I have been looking at a usb solution to use with laptop ...but again difficult to know which will work ... another question are there any cards which are known to work well at 192Khz at a good price.

Congrats on the software by the way very impressed with it

73,

Jon G4TSN

938. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-15 02:31:39 UTC
From: Don
Topic: 929 Message: 938

--- In kgksdr@yahoogroups.com, "aarhus_ca" <john.turgoose@...> wrote:
>
> Hi
> Ver 11.0.59....
>
> Was working with AMD 64Dual core, and Delta...
> Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....
>
> 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
>
> Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
>
> I have downloaded and re-installed ASIO4ALL - which used to work ...
> and now am at a loss - there is ABSOLUTELY no signal on it.
>
> Any suggestions?

A similar thing happened to me. My softrock worked with rocky
and powersdr but on kgksdr I just had the noise floor with no
signals. I found that it was caused by the "port" settings on
the first hardware tab. Just as a quick experiment to see if
this is the problem you can just set it to use some port you
don't have, like COM 20 for instance. Mine jumped back to life
as soon as I hit "apply" when I did that.

73 and good luck.

Don KI6FOM

939. Re: [kgksdr] Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-15 09:12:25 UTC
From: Duncan Munro
Topic: 929 Message: 939

Don wrote:
> --- In kgksdr@yahoogroups.com, "aarhus_ca" <john.turgoose@...> wrote:
>> Hi
>> Ver 11.0.59....
>>
>> Was working with AMD 64Dual core, and Delta...
>> Now have Duo2 Core, Navigator (with USB Codec) and still the Delta....
>>
>> 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
>>
>> Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
>>
>> I have downloaded and re-installed ASIO4ALL - which used to work ...
>> and now am at a loss - there is ABSOLUTELY no signal on it.
>>
>> Any suggestions?
>
> A similar thing happened to me. My softrock worked with rocky
> and powersdr but on kgksdr I just had the noise floor with no
> signals. I found that it was caused by the "port" settings on
> the first hardware tab. Just as a quick experiment to see if
> this is the problem you can just set it to use some port you
> don't have, like COM 20 for instance. Mine jumped back to life
> as soon as I hit "apply" when I did that.

Don, that's a good tip and may well be the problem. It is easy to end up with the softrock stuck on TX when you are trying to receive from it.

Another thing is to make sure the serial line settings are correct, I had a problem with this yesterday as I got RTS and DTR mixed up :-(

I guess it must be a config issue because if it works OK on all the other software packages, that tells you that the souncard, cables, softrock are all working well.

73,

Duncan
M0KGK

940. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-15 14:47:36 UTC
From: aarhus_ca
Topic: 929 Message: 940

Hi Duncan and Don

Some good ideas there.. yes, Duncan, I agree it is some kind of config problem as I just confirmed Flex works with ASIO4ALL and has the background signal without the softrock, and works fine with it.

I tried different com ports and settings - interesting as I have a 'Navigator' with Com 4 as its PTT (not for Softrock obviously)..but it has LED's to show when things activate - it shows the Com 6! (CW port) active, and the PTT depending on the CTS,RTS settings in KGKSDR etc.

I makes NO difference as to getting a signal tho' nor does any changes to the ASIO4ALL setup (like trying my other sound cards etc)...

I still have absolutely not a trace of ANY signal - if it wasn't a hobby :-) I'd be desperate!

Cheers John

PS I really liked KGKSDR too - I have a built beta RX?TX 61. to try if I can the sw to work again.

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Don wrote:
> > --- In kgksdr@yahoogroups.com, "aarhus_ca" <john.turgoose@> wrote:
> >> Hi
> >> Ver 11.0.59....
> >>
> >> Was working with AMD 64Dual core, and Delta...
> >> Now have Duo2 Core, Navigator (with USB Codec) and still the
Delta....
> >>
> >> 'Rocky' works, SDR Decoder works, SDRadio, SharpDSP work;
> >>
> >> Flex PowerSDR Beta 1.6. works WITH ASIO4ALL.
> >>
> >> I have downloaded and re-installed ASIO4ALL - which used to work ...
> >> and now am at a loss - there is ABSOLUTELY no signal on it.
> >>
> >> Any suggestions?
> >
> > A similar thing happened to me. My softrock worked with rocky
> > and powersdr but on kgksdr I just had the noise floor with no
> > signals. I found that it was caused by the "port" settings on
> > the first hardware tab. Just as a quick experiment to see if
> > this is the problem you can just set it to use some port you

> > don't have, like COM 20 for instance. Mine jumped back to life
> > as soon as I hit "apply" when I did that.
>
> Don, that's a good tip and may well be the problem. It is easy to end
> up with the softrock stuck on TX when you are trying to receive from it.
>
> Another thing is to make sure the serial line settings are correct, I
> had a problem with this yesterday as I got RTS and DTR mixed up :-(
>
> I guess it must be a config issue because if it works OK on all the
> other software packages, that tells you that the souncard, cables,
> softrock are all working well.
>
>
> 73,
>
> Duncan
> M0KGK
>

941. Re: [kgksdr] Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-15 16:29:47 UTC
From: Duncan Munro
Topic: 929 Message: 941

aarhus_ca wrote:
> Hi Duncan and Don
>
> Some good ideas there.. yes, Duncan, I agree it is some kind of config
> problem as I just confirmed Flex works with ASIO4ALL and has the
> background signal without the softrock, and works fine with it.
>
> I tried different com ports and settings - interesting as I have a
> 'Navigator' with Com 4 as its PTT (not for Softrock obviously)..but it
> has LED's to show when things activate - it shows the Com 6! (CW
> port) active, and the PTT depending on the CTS,RTS settings in KGKSDR etc.
>
> I makes NO difference as to getting a signal tho' nor does any
> changes to the ASIO4ALL setup (like trying my other sound cards etc)...
>
> I still have absolutely not a trace of ANY signal - if it wasn't a
> hobby :-) I'd be desperate!

Hi John, I've almost run out of ideas. Can you email me a screen dump
of your Hardware, Hardware2, and General settings?

You can do this by going to each setup screen, pressing the Alt key
followed by the Print Screen / SysRq button and then pasting into an
email to me.

> PS I really liked KGKSDR too - I have a built beta RX?TX 61. to try
> if I can the sw to work again.

Just been using the 6.1 today for the first time, it was built for me by
'KGK senior and has the WA2EBY PA board in it, works very well and
getting a few contacts on PSK into Germany with no problems.

73,

Duncan
M0KGK

942. Re: [kgksdr] Re: Thanks .....cw side tone question

Yahoo group: kgksdr
Date: 2007-04-16 18:40:18 UTC
From: Jose A. Amador
Topic: 935 Message: 942

> > Hi Jon,
> >
> > You are set up as single soundcard so KGKSDR will provide one
> output and
> > one output only. This is used for IQ out during transmit so cannot
> >
> be
> > used for sidetone as well.
> >
> > One potential solution is to enable the onboard souncard through
> > ASIO4ALL and run as the normal 2 card setup. This will likely
> limit
> > your activities to 48kHz samplerate maximum, but it will allow RX
> > monitoring and/or sidetone monitor.
> >
> > 73,
> >
> > Duncan M0KGK

Could the old speaker be an option for CW monitoring?

Maybe another box to check if you want a 800 Hz sidetone that way....

73,

Jose, CO2JA

V Conferencia Internacional de Energ?a Renovable, Ahorro de Energ?a y Educaci?n
Energ?tica.
22 al 25 de mayo de 2007
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.cujae.edu.cu/eventos/cier

Participe en Universidad 2008.
11 al 15 de febrero del 2008.
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.universidad2008.cu

943. Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-17 18:26:44 UTC
From: dl7jp
Topic: 929 Message: 943

Duncan, John:

I seem to have run into the same problem: All worked fine with the Softrock until I changed some serial interface parameters when experimenting with PTT control. Strangely, the program suddenly started kying RFRFRFRF... I guess it believed there is a key attached and a strange "loop" occurred. I could not get rid of this, and reinstalled the program. Now no reception any more; PowerSDR any other Soundcard-dependent apps work fine.

Meanwhile, I reinstalled the KGKSDR a few times, also ASIO4ALL, removed a few registry entries obviously from KGKSDR before another re-install, etc, but no luck. Even recovering to an earlier system restore point, re-installing the windows drivers for the USB sound card and USB serial interface did not make a difference.

Is there any persistent side effect of changing serial params that would survive all this?

The only option left I see now is re-installing windows :-), so any hints are appreciated.

Thanks for reading,

Joachim.

PS: I have a parallel installation also on a laptop (same versions of KGKSDR, ASIO4ALL), when I connect the USB soundcard to this machine (where I did not fiddle with the serial parameters) all is OK.
Can this maybe help to identify the problem...? (I did of course make sure that serial params in both installations are the same...)

944. Re: [kgksdr] Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-17 18:37:47 UTC
From: Duncan Munro
Topic: 929 Message: 944

dl7jp wrote:
> Duncan, John:
>
> I seem to have run into the same problem: All worked fine with
> the Softrock until I changed some serial interface parameters when
> experimenting with PTT control. Strangely, the program suddenly
> started kying RFRFRFRF... I guess it believed there is a key attached
> and a strange "loop" occurred. I could not get rid of this, and
> reinstalled the program. Now no reception any more; PowerSDR
> any other Soundcard-dependent apps work fine.

Hi Joachim, the continual RF in morse code out of the speaker is caused by RF level within the DSP going into overload (nothing to do with the serial port).

It's one of the following two problems:

(a) The AGC is set to manual and the RF gain is too high. Manual AGC is of use in analogue equipment but no use in the dsp paradigm. In fact, I'm taking it off (and the RF gain) right now because it causes more problems than it's worth.

(b) There is a corrupt calibration map.
If the above is not the problem, please reset the calibration map.
Details on how to do this can be found at
http://groups.yahoo.com/group/kgksdr/message/118

Try the above, if there are still issues, please let us know and we can take it from there.

73,

Duncan
M0KGK

945. RE: [kgksdr] Re: M0KGK SDR Transceiver USED to work...

Yahoo group: kgksdr
Date: 2007-04-17 19:30:21 UTC
From: DL7JP
Topic: 929 Message: 945

Duncan,

thanks a bunch, erasing the calibration maps solved the problem; the only thing left after this was an error message, "Out of Range" when closing the options/transceiver Window. Another re-install got rid of this.
Nw all fine...!!

Thanks a lot & 73 de Joachim.

946. KGKSDR Build 60 released: Enhancements for data modes

Yahoo group: kgksdr
Date: 2007-04-18 19:42:51 UTC
From: Duncan Munro
Topic: 946 Message: 946

Build 60 of KGKSDR has been uploaded to the website at:

http://www.m0kgk.co.uk/sdr/download.php

There are two key sets of changes - the first gives some assistance for data modes and software which are using the HB9TLK loop.dll.

There is a new mode called 'Data' which has its own filter bank and a separate TX gain control which means you don't have to mess around with the setting when moving from PSK to SSB. The data mode also prevents the RF speech clipper from being enabled.

The second set of changes are around the AGC which had a Manual option. Within the limitations of analogue equipment this can sometimes be useful, but within the digital paradigm it causes more problems than it's worth. Manual AGC has now gone, and with it the RF gain control.

The full change log is shown at the end of the post, but before this I would like to say that I took a break from the software at the weekend and actually tried some OPERATING with the softrock for a change!

On Sunday, using PSK31 on 40m with WinPSK and Cesco's DLL, I worked Germany, France, Italy, Sardinia, Austria, Slovenia, Iceland, Kaliningrad and finally USA (Marietta, GA) at a distance of 6800km. This was the Softrock V6.1 with the WA2EBY 2xIRF510 amplifier at approximately 10 watts output into a piece of 1mm copper wire 8m long and 2m off the ground.

==========
LATEST CHANGES TO M0KGK SDR

1.1.0.60 18/04/2007

ADDED: Ability to register power levels > 9999 milliwatts.

ADDED: Power is displayed in watts when > 1W.

ADDED: Data mode button which is the same as SSB but with no TX frequency shaping, no clip/gate, less gain, and a separate gain control.

REMOVED: RF gain and manual AGC.

73,

Duncan
M0KGK

947. Re: KGKSDR Build 60 released: Enhancements for data modes

Yahoo group: kgksdr
Date: 2007-04-18 23:20:08 UTC
From: cesco12342000
Topic: 946 Message: 947

> There is a new mode called 'Data'

This is Nice !

I suggest adding data-lsb as option.

btw there is a new *star* in the digi-mode community.
It's the old WSJT JT65A mode beeing used on HF.
It allows decoding of signals at -30db snr, and seems
ideal for the qrp-softrocks. Unluckily it's not patched
for the loop.dll yet.
Guide at: http://www.obriensweb.com/bozoguidejt65a.htm

I did work JA with it today, on a 5m high g5rv running 50W.

948. Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-19 20:37:43 UTC
From: geoffrey_cottrell
Topic: 948 Message: 948

Hi Group

I am a beginner to SDR and need a bit of help. I have an Edirol FA-66 interface and SoftRock RXTX 6.1. Does anyone have this config? I would like to make an easy set-up with kgksdr software and am a loss to know the basic sound card settings needed in this case.
I believe the RXTX board to be working (RX is ok with tip and ring quadrature sigs present) and the TX seems OK - passing the 20V p-p test into a dummy load as per builder notes. It would be helpful to know the serial cable connections needed for a simple test setup for RX and TX, also with CW using a non-grounded straight key. I have seen the help notes connection diagram but can't seem to find the right combination of settings in the "Ports" window to make it all happen. I have tried connecting the PTT input board connection to the "DTR" line but am not sure how this relates to the "Ports" window settings. With the FA66, do I need to configure a "second" sound card (not clear to me)? What FA66 inputs and outputs are needed here?

Am I right in thinking that with CW and SDR, an audio signal is generated in the software that beats with the LO freq to make a difference signal equal to the required RF output? If I put a 'scope on the output of the soundcard should I expect to see such an audio signal there when in Tune or TX mode?

Thanks in advance

Geoff
G3XGC

949. Re: [kgksdr] Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-19 21:01:19 UTC
From: Duncan Munro
Topic: 948 Message: 949

geoffrey_cottrell wrote:
> Hi Group
>
> I am a beginner to SDR and need a bit of help. I have an Edirol FA-66
> interface and SoftRock RXTX 6.1. Does anyone have this config? I would
> like to make an easy set-up with kgksdr software and am a loss to know
> the basic sound card settings needed in this case.
> I believe the RXTX board to be working (RX is ok with tip and ring
> quadrature sigs present) and the TX seems OK - passing the 20V p-p
> test into a dummy load as per builder notes. It would be helpful to
> know the serial cable connections needed for a simple test setup for
> RX and TX, also with CW using a non-grounded straight key. I have seen
> the help notes connection diagram but can't seem to find the right
> combination of settings in the "Ports" window to make it all happen. I
> have tried connecting the PTT input board connection to the "DTR" line
> but am not sure how this relates to the "Ports" window settings.

Hi Geoff, for port settings:

Morse key -> the com port that the serial link is on.

To the right of this is the box for the line that has one end of the
morse key (e.g. CTS). Common high should be set to the other pin that
connects to the morse key, e.g. RTS.

PTT to TX is the line to the Softrock that causes it to transmit, e.g.
DTR. That's it for the serial lines. The e.g. pins above are taken
from the diagram which you can get with Help|Connections menu option.

With
> the FA66, do I need to configure a "second" sound card (not clear to
> me)? What FA66 inputs and outputs are needed here?

You already have "two" soundcards in the FA66 anyway. Don't click the
single souncard box on hardware 2. It has, I believe, 4 inputs and 4
outputs. Based on my limited knowledge of this card I would suggest the
following:

RX IQ input: input 1/2
Speaker out: output 1/2

Mic input: input 3/4
TX IQ input: output 3/4

All four must be filled in. If you are using only CW you must still
fill in the mic input or the TX won't work at all.

> Am I right in thinking that with CW and SDR, an audio signal is
> generated in the software that beats with the LO freq to make a
> difference signal equal to the required RF output? If I put a 'scope
> on the output of the soundcard should I expect to see such an audio
> signal there when in Tune or TX mode?

That's correct. To see a signal you must tune away from the LO
frequency as the soundcard will try to output DC which won't be much use.

73,

Duncan
M0KGK

950. Struggle with USB-RS232- Adapter vs. Keyer6

Yahoo group: kgksdr
Date: 2007-04-20 07:40:38 UTC
From: Uwe Wensauer
Topic: 950 Message: 950

Tried to communicate USB-RS232 Adapter with Keyer6.
ASIO4ALL v2, Realtek HD Audio output 1 / Realtek HD Audio output 2,
When I squeeze the paddles nothing . I guess, a sound should come out
of speaker ?
How can I isolate the problem ?
Uwe, DK1KQ

951. Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-20 16:17:26 UTC
From: geoffrey_cottrell
Topic: 948 Message: 951

Hi Duncan

Thanks for your message. Still no luck so far.

My settings:
Driver: EDIROL FA66
RX IQ i/p Line in 3/4
Spkr out Line out 3/4
Mic i/p Mic in 1 l/r
TX IQ o/p Line out 1/2

I put a scope on the line out i/p to RXTX board to look for audio and when I press the MOX or Tune buttons, there is no AF signal at the board i/p.

I did install ASIO for all but it is not selected. The FA66 apparently has an ASIO driver anyway.

Soft Control on the FA66 not selected.

Is this a driver problem. Seems I should be seeing some AF when in at least tune mode??

Geoff

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> geoffrey_cottrell wrote:
> > Hi Group
> >
> > I am a beginner to SDR and need a bit of help. I have an Edirol FA-66
> > interface and SoftRock RXTX 6.1. Does anyone have this config? I would
> > like to make an easy set-up with kgksdr software and am a loss to know
> > the basic sound card settings needed in this case.
> > I believe the RXTX board to be working (RX is ok with tip and ring
> > quadrature sigs present) and the TX seems OK - passing the 20V p-p
> > test into a dummy load as per builder notes. It would be helpful to
> > know the serial cable connections needed for a simple test setup for
> > RX and TX, also with CW using a non-grounded straight key. I have seen
> > the help notes connection diagram but can't seem to find the right
> > combination of settings in the "Ports" window to make it all happen. I
> > have tried connecting the PTT input board connection to the "DTR" line
> > but am not sure how this relates to the "Ports" window settings.
>
> Hi Geoff, for port settings:
>
> Morse key -> the com port that the serial link is on.

>
> To the right of this is the box for the line that has one end of the
> morse key (e.g. CTS). Common high should be set to the other pin that
> connects to the morse key, e.g. RTS.
>
> PTT to TX is the line to the Softrock that causes it to transmit, e.g.
> DTR. That's it for the serial lines. The e.g. pins above are taken
> from the diagram which you can get with Help|Connections menu option.
>
> With
> > the FA66, do I need to configure a "second" sound card (not clear to
> > me)? What FA66 inputs and outputs are needed here?
>
> You already have "two" soundcards in the FA66 anyway. Don't click the
> single souncard box on hardware 2. It has, I believe, 4 inputs and 4
> outputs. Based on my limited knowledge of this card I would suggest
the
> following:
>
> RX IQ input: input 1/2
> Speaker out: output 1/2
>
> Mic input: input 3/4
> TX IQ input: output 3/4
>
> All four must be filled in. If you are using only CW you must still
> fill in the mic input or the TX won't work at all.
>
> > Am I right in thinking that with CW and SDR, an audio signal is
> > generated in the software that beats with the LO freq to make a
> > difference signal equal to the required RF output? If I put a 'scope
> > on the output of the soundcard should I expect to see such an audio
> > signal there when in Tune or TX mode?
>
> That's correct. To see a signal you must tune away from the LO
> frequency as the soundcard will try to output DC which won't be much
use.
>
> 73,
>
> Duncan
> M0KGK
>

952. Re: [kgksdr] Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-20 17:15:18 UTC
From: Duncan Munro
Topic: 948 Message: 952

geoffrey_cottrell wrote:

> I put a scope on the line out i/p to RXTX board to look for audio and
> when I press the MOX or Tune buttons, there is no AF signal at the
> board i/p.

Hi Geoff, tune should give you an output. Just checking a few things:

* What is the crystal frequency of the softrock?
* What is the frequency displayed on KGKSDR ?
* Does the bottom of the screen go brown or red when you select tune?
* What is the level of the power slider?

73,

Duncan
M0KGK

953. Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-20 17:40:09 UTC
From: geoffrey_cottrell
Topic: 948 Message: 953

Hi Duncan

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> geoffrey_cottrell wrote:
>
> > I put a scope on the line out i/p to RXTX board to look for audio and
> > when I press the MOX or Tune buttons, there is no AF signal at the
> > board i/p.
>
> Hi Geoff, tune should give you an output. Just checking a few things:
>
> * What is the crystal frequency of the softrock?

Xtal is 1842.7 kHz

> * What is the frequency displayed on KGKSDR ?

1827.2 kHz

> * Does the bottom of the screen go brown or red when you select tune?

Brown

> * What is the level of the power slider?

300 mW

> 73
Geoff

954. Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-21 11:07:19 UTC
From: geoffrey_cottrell
Topic: 948 Message: 954

Hi again Duncan

Just downloaded the 1.1 version of prog. - still no tune audio.

Then I downloaded the IQ test software - works fine, producing IQ
audio on both board inputs

73
Geoff

--- In kgksdr@yahoogroups.com, "geoffrey_cottrell" <g3.xgc@...> wrote:
>
> Hi Duncan
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > geoffrey_cottrell wrote:
> >
> > > I put a scope on the line out i/p to RXTX board to look for
audio and
> > > when I press the MOX or Tune buttons, there is no AF signal at the
> > > board i/p.
> >
> > Hi Geoff, tune should give you an output. Just checking a few things:
> >
> > * What is the crystal frequency of the softrock?
>
> Xtal is 1842.7 kHz
>
> > * What is the frequency displayed on KGKSDR ?
>
> 1827.2 kHz
>
> > * Does the bottom of the screen go brown or red when you select tune?
>
> Brown
>
> > * What is the level of the power slider?
>
> 300 mW
>
>
> > 73
> Geoff
>

955. Re: [kgksdr] Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-21 13:43:06 UTC
From: Duncan Munro
Topic: 948 Message: 955

geoffrey_cottrell wrote:
> Hi again Duncan
>
> Just downloaded the 1.1 version of prog. - still no tune audio.
>
> Then I downloaded the IQ test software - works fine, producing IQ
> audio on both board inputs

Is the IQ test using normal Windows drivers or ASIO?

Is your FA66 enabled in ASIO4all? I ask because there may be problems with the native ASIO drivers and ASIO4all, probably best to uninstall ASIO4all and remove it from the equation.

73,

Duncan
M0GK

956. Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-21 14:42:04 UTC
From: geoffrey_cottrell
Topic: 948 Message: 956

Duncan

>
> Is the IQ test using normal Windows drivers or ASIO?
>

IQ test for ASIO drivers - selecting Edirol. Line out 3&4.

> Is your FA66 enabled in ASIO4all? I ask because there may be problems
> with the native ASIO drivers and ASIO4all, probably best to uninstall
> ASIO4all and remove it from the equation.

I have run the uninstaller for ASIO 4 all

Same as before
73
Geoff

957. Re: [kgksdr] Re: Basic setup with RXTX 6.1?

Yahoo group: kgksdr
Date: 2007-04-21 15:07:36 UTC
From: Duncan Munro
Topic: 948 Message: 957

geoffrey_cottrell wrote:
> Duncan
>
>> Is the IQ test using normal Windows drivers or ASIO?
>>
>
> IQ test for ASIO drivers - selecting Edirol. Line out 3&4.
>
>> Is your FA66 enabled in ASIO4all? I ask because there may be problems
>> with the native ASIO drivers and ASIO4all, probably best to uninstall
>> ASIO4all and remove it from the equation.
>
> I have run the uninstaller for ASIO 4 all
>
> Same as before

Hi Geoff, I'm sending you a debug version offline to see if we can work out what's going wrong.

73,

Duncan
M0KGK

958. Receive From Kenwood TS-520S

Yahoo group: kgksdr
Date: 2007-04-21 20:50:11 UTC
From: n3hkn
Topic: 958 Message: 958

Finally used an 80m Softrock 6.2 to pick off my Kenwood IF (3.395mhz). Fortunately there were many PSK signals on 20M which allowed me to use the KGKSDR filtering to its fullest. I was able to separate many weak PSK signals from adjacent strong signals easily. If I had been using the TS-520S by itself the stronger signals AGC would have reduced the sensitivity enough to make the weak PSK unreadable. Listening to a shortwave broadcast about Ham Radio on AM was quite nice as well, allowing full fidelity.

Dick N3HKN

959. Re: [kgksdr] Receive From Kenwood TS-520S

Yahoo group: kgksdr
Date: 2007-04-21 21:00:24 UTC
From: Duncan Munro
Topic: 958 Message: 959

n3hkn wrote:
> Finally used an 80m Softrock 6.2 to pick off my Kenwood IF (3.395mhz).
> Fortunately there were many PSK signals on 20M which allowed me to use
> the KGKSDR filtering to its fullest. I was able to separate many weak
> PSK signals from adjacent strong signals easily. If I had been using
> the TS-520S by itself the stronger signals AGC would have reduced the
> sensitivity enough to make the weak PSK unreadable. Listening to a
> shortwave broadcast about Ham Radio on AM was quite nice as well,
> allowing full fidelity.

Hi Dick, nice to see another AM user there. I can't wait to get my
DDS-60 built up and spliced onto the Softrock, so I can get Arrow Rock
Radio 675kHz roaring out :-)

73

Duncan
M0KGK

960. Public thanks to Duncan

Yahoo group: kgksdr
Date: 2007-04-21 21:46:52 UTC
From: aarhus_ca
Topic: 960 Message: 960

I had a really strange on-going problem with KGKSDR - and I want to thank Duncan for all his efforts in trying to find a cure...

It is working fine now, and all I have to do :-) - is build some more of the softrocks I have; attach the DDS-60's I have (with the FCC controller I built) - and get the RX/TX 6.1 going !

Cheers, thanks again 73 John VE3NFK

961. Re: [kgksdr] Public thanks to Duncan

Yahoo group: kgksdr
Date: 2007-04-21 23:55:54 UTC
From: Duncan Munro
Topic: 960 Message: 961

aarhus_ca wrote:
> I had a really strange on-going problem with KGKSDR - and I want to
> thank Duncan for all his efforts in trying to find a cure...
>
> It is working fine now, and all I have to do :-) - is build some more
> of the softrocks I have; attach the DDS-60's I have (with the FCC
> controller I built) - and get the RX/TX 6.1 going !
>
> Cheers, thanks again 73 John VE3NFK

Hi John,

Thank you for your kind words! Wishing you best of luck with the DDS-60, as I said to Dick it would be great for me to pick up Arrow Rock Radio from Lopik (Netherlands).

On the amateur radio front, here's hoping there's not too much competition stuff on 40m tomorrow and I can get a few more QSO's under my belt.

My father emailed me and asked if I was going for Softrock DXCC, LOL, I have 91 countries to go, but it's good fun to fire it all up and see what you can get.

73,

Duncan
M0KGK

962. Re: Public thanks to Duncan

Yahoo group: kgksdr
Date: 2007-04-22 02:39:27 UTC
From: n3hkn
Topic: 960 Message: 962

Just be careful that you do not xmit into your receiver. Use a 6.2
receiver not the RXTX 6.1.

My experience with the DDS-60 was very bad when used as a VFO. The
spurs were terrible. It may have been my unit or maybe a parallel
circuit on the DDS output would help one one band at a time.
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> aarhus_ca wrote:
> > I had a really strange on-going problem with KGKSDR - and I want to
> > thank Duncan for all his efforts in trying to find a cure...
> >
> > It is working fine now, and all I have to do :-) - is build some more
> > of the softrocks I have; attach the DDS-60's I have (with the FCC
> > controller I built) - and get the RX/TX 6.1 going !
> >
> > Cheers, thanks again 73 John VE3NFK
>
> Hi John,
>
> Thank you for your kind words! Wishing you best of luck with the
> DDS-60, as I said to Dick it would be great for me to pick up Arrow
Rock
> Radio from Lopik (Netherlands).
>
> On the amateur radio front, here's hoping there's not too much
> competition stuff on 40m tomorrow and I can get a few more QSO's under
> my belt.
>
> My father emailed me and asked if I was going for Softrock DXCC, LOL, I
> have 91 countries to go, but it's good fun to fire it all up and see
> what you can get.
>
> 73,
>
> Duncan
> M0KGK
>

963. Re: [kgksdr] Re: Public thanks to Duncan

Yahoo group: kgksdr
Date: 2007-04-22 16:31:20 UTC
From: Duncan Munro
Topic: 960 Message: 963

n3hkn wrote:
> Just be careful that you do not xmit into your receiver. Use a 6.2
> receiver not the RXTX 6.1.
>
> My experience with the DDS-60 was very bad when used as a VFO. The
> spurs were terrible. It may have been my unit or maybe a parallel
> circuit on the DDS output would help one one band at a time.

Hi Dick, I know they have some problems but I believe that some frequencies work OK and some are not so good, I've heard there's an algorithm that works all this out.

Are there any other sensibly priced DDS kits out there? Something with quadrature output would be incredibly cool.

73,

Duncan
M0KGK

964. Re: Public thanks to Duncan

Yahoo group: kgksdr
Date: 2007-04-22 21:17:00 UTC
From: n3hkn
Topic: 960 Message: 964

Look at http://groups.yahoo.com/group/dds_controller . A 9954 DDS is being designed. The prototype boards are just in and the adventurous will try to build a few. One of the 99xx series, that fits on the board, has quad out.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > Just be careful that you do not xmit into your receiver. Use a 6.2
> > receiver not the RXTX 6.1.
> >
> > My experience with the DDS-60 was very bad when used as a VFO. The
> > spurs were terrible. It may have been my unit or maybe a parallel
> > circuit on the DDS output would help one one band at a time.
>
> Hi Dick, I know they have some problems but I believe that some
> frequencies work OK and some are not so good, I've heard there's an
> algorithm that works all this out.
>
> Are there any other sensibly priced DDS kits out there? Something with
> quadrature output would be incredibly cool.
>
> 73,
>
> Duncan
> M0KGK
>

965. KGKSDR Connection for Softrock RXTXv6.1

Yahoo group: kgksdr
Date: 2007-04-25 17:00:49 UTC
From: Russell Blair
Topic: 965 Message: 965

In the Diagram show a configuration using a Key and a Keyer, The Com DB9 I see pin 4=DTR, pin 5=Gnd, and pin 8 =CTS, Now the collector of the PNP Trans goes to RTS (What pin is this ?). I can't seem to find the pin number.

Russell NC5O

==========
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Russell Blair
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966. NOT KGKSDR - PA3AKE H-MODE MIXER MEASUREMENT UPDATE

Yahoo group: kgksdr
Date: 2007-05-04 23:05:11 UTC
From: Giancarlo
Topic: 966 Message: 966

Hi all,

I like to inform you that Martein Bakker, PA3AKE, has updated his web page reporting his measurement on the H-Mode Mixer. The update is relative to measurement done on the I7SWX 2T H-Mode Mixer using the FSA3157 and the original 2T version with Pericom PI5C3125 fast bus switch.

A major comment reported by Martein on the 2T HMM version with FSA3157 is:

"2 transformer version is an interesting branch in H-Mode mixer development. Most impressive is the spur reduction possible with home made transformers with this configuration in combination with the FSA3157 switches."

PA3AKE web page is: http://www.xs4all.nl/~martein/pa3ake/hmode/

Below is reported the Contents list of all measurements done and comments reported by Martein. I am sure all those that have visited and will visit his page will find one of the most complete reports done on the important H-Mode Mixer developed by Colin Horrabine, G3SBI.

73 and enjoy the reading

Gian
I7SWX

H-Mode mixer Overview

Contents
1. Introduction
2. IP3 measurement / limitations
o Signal Generators and Hybrid Combiner
o Post Mixer Roofing Filter
o Pre Mixer Band-pass Filters
o Mixer Transformers
3. Fairchild switches
o FSAV430
o FSAV450
o FSAV330
o FSAV332
o FST3125
o NC7SZ384
o FSA3157
o FSA3157 + 74AC04

4. Mini-Circuits transformers
o TT4-1A
o T4-1
o ADTT4-1
o T1-1T
o ADTT1-1
o ADTT1-6
o ADT1-6T
o TT1-6
o T1-6T
o ADT1-1WT
5. Homebrew transformers
o FT37-43 toriod
o BN43-2402 2-Transfomer H-Mode mixer
6. Mixer symmetry
7. Conclusion
8. Acknowledgments
9. Appendix
AD9951 DDS spurs on 15M

967. TX- Image supression

Yahoo group: kgksdr
Date: 2007-05-16 18:24:33 UTC
From: Uwe Wensauer
Topic: 967 Message: 967

After calibrating the RX- image suppression, which works fine
in "Guess"
I can not reduce the image fer TX.There is no reaction when I move the
slider for Amplitude or Phase. The Image is by the way stronger as the
desired signal.

Whats wrong ?

Any help welcome

Uwe, dk1kq

968. Re: [kgksdr] TX- Image supression

Yahoo group: kgksdr
Date: 2007-05-16 18:55:10 UTC
From: Duncan Munro
Topic: 967 Message: 968

Uwe Wensauer wrote:
> After calibrating the RX- image suppression, which works fine
> in "Guess"
> I can not reduce the image fer TX.There is no reaction when I move the
> slider for Amplitude or Phase. The Image is by the way stronger as the
> desired signal.
>
> Whats wrong ?

The level of TX suppression should be very high indeed.

I did have a problem with this myself and it was caused by using the monitor output of the Delta 44 rather than a real output.

There may be other causes, i.e. a channel dead on the audio lead, problem with a solder splash etc.

Start off with the IQ generation software and a receiver and if you have a scope, check the audio coming into the transceiver board. You will have to work through from there to find out where the problem is.

73,

Duncan
M0KGK

969. MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-26 01:40:19 UTC
From: Russell Blair
Topic: 969 Message: 969

I have the program working but I get an (Range Error) at times, and I cant find any information in the FAQ about it can someone fill me in on why I'm getting the error. I want to get the program working on RTTY and other digital modes.

Tnx Russell NC5O

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970. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-26 08:04:21 UTC
From: Duncan Munro
Topic: 969 Message: 970

Russell Blair wrote:
> I have the program working but I get an (Range Error)
> at times, and I cant find any information in the FAQ
> about it can someone fill me in on why I'm getting the
> error. I want to get the program working on RTTY and
> other digital modes.

Hi Russell,

If you get a range error it's like a calibration map problem. For troubleshooting tips, assuming you are using the latest build 61, there is now a Help|Troubleshooting... menu item.

Click on troubleshoot RX and then pick overflow error which should fix the problem.

73,

Duncan
M0KGK

971. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-26 11:55:45 UTC
From: Russell Blair
Topic: 969 Message: 971

Tnx got it, I see you added a new mode (Digital).
I need to build the interface for cw and give it a try
too.
Tnx.

Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > I have the program working but I get an (Range
> Error)
> > at times, and I cant find any information in the
> FAQ
> > about it can someone fill me in on why I'm getting
> the
> > error. I want to get the program working on RTTY
> and
> > other digital modes.
>
> Hi Russell,
>
> If you get a range error it's like a calibration map
> problem. For
> troubleshooting tips, assuming you are using the
> latest build 61, there
> is now a Help|Troubleshooting... menu item.
>
> Click on troubleshoot RX and then pick overflow
> error which should fix
> the problem.
>
> 73,
>
> Duncan
> M0KGK
>
>
>

==========
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Russell Blair
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CALL ========= NC5O
GRID ========= EM12px

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DOS# ========= 470
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972. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-26 12:03:35 UTC
From: Duncan Munro
Topic: 969 Message: 972

Russell Blair wrote:
> Tnx got it, I see you added a new mode (Digital).
> I need to build the interface for cw and give it a try
> too.

Digital is the same as USB but there is no clipper/gate to distort the signal, nor is the TX audio bandwidth contstrained. The gain is also a bit lower than that used for the mic, plus you get a gain control just for digital as well. This saves a lot of messing around when moving from digital to SSB.

As you mention CW, another thing I'm working through at the moment (after I get some curtains put up!) is a built in iabmbic keyer and keyboard send. Might even put a few programmable buttons on there for CQ CQ DE XYZ123 and so on.

73,

Duncan
M0KGK

973. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-26 12:18:19 UTC
From: Russell Blair
Topic: 969 Message: 973

Tnx Duncan for the information and on the new add-on
it will be a good welcome to the group. Let us know
when you get it ready for use.

Tnx Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Tnx got it, I see you added a new mode (Digital).
> > I need to build the interface for cw and give it a
> try
> > too.
>
> Digital is the same as USB but there is no
> clipper/gate to distort the
> signal, nor is the TX audio bandwidth contstrained.
> The gain is also a
> bit lower than that used for the mic, plus you get a
> gain control just
> for digital as well. This saves a lot of messing
> around when moving
> from digital to SSB.
>
> As you mention CW, another thing I'm working through
> at the moment
> (after I get some curtains put up!) is a built in
> iabmbic keyer and
> keyboard send. Might even put a few programmable
> buttons on there for
> CQ CQ DE XYZ123 and so on.
>
> 73,
>
> Duncan
> M0KGK
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974. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 00:31:43 UTC
From: Russell Blair
Topic: 969 Message: 974

Duncan, I got the interface made today, a question,
The PTT_IN on the softrock needs about 10-12 vdc, all
I'm getting is -9.34 vdc even when I push the MOX or
the tune buttom. The setting for Com 1 (DB9) port is
as you drawing (options setting). This is the same
port that I was using to Tx with Rocky3.1 (PTT_IN) not
the same pins. I'l work on the CW after I get the
PTT_IN working.

Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Tnx got it, I see you added a new mode (Digital).
> > I need to build the interface for cw and give it a
> try
> > too.
>
> Digital is the same as USB but there is no
> clipper/gate to distort the
> signal, nor is the TX audio bandwidth contstrained.
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> bit lower than that used for the mic, plus you get a
> gain control just
> for digital as well. This saves a lot of messing
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> As you mention CW, another thing I'm working through
> at the moment
> (after I get some curtains put up!) is a built in
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> keyboard send. Might even put a few programmable
> buttons on there for
> CQ CQ DE XYZ123 and so on.
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> 73,
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> Duncan
> M0KGK
>
>
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==========
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Russell Blair
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975. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 04:38:09 UTC
From: Duncan Munro
Topic: 969 Message: 975

Russell Blair wrote:
> Duncan, I got the interface made today, a question,
> The PTT_IN on the softrock needs about 10-12 vdc, all
> I'm getting is -9.34 vdc even when I push the MOX or
> the tune buttom. The setting for Com 1 (DB9) port is
> as you drawing (options setting). This is the same
> port that I was using to Tx with Rocky3.1 (PTT_IN) not
> the same pins. I'l work on the CW after I get the
> PTT_IN working.

Hi Russell,

You need to ensure that the transceiver options have this pin listed as PTT to TX as this is what it's called on the options screen. PTT in on the transceiver options is what is used for a push to talk button to key KGKSDR software, like a button on the side of a mic.

73,

Duncan
M0KGK

976. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 09:01:09 UTC
From: Duncan Munro
Topic: 969 Message: 976

Duncan Munro wrote:
> Russell Blair wrote:
>> Duncan, I got the interface made today, a question,
>> The PTT_IN on the softrock needs about 10-12 vdc, all
>> I'm getting is -9.34 vdc even when I push the MOX or
>> the tune buttom. The setting for Com 1 (DB9) port is
>> as you drawing (options setting). This is the same
>> port that I was using to Tx with Rocky3.1 (PTT_IN) not
>> the same pins. I'l work on the CW after I get the
>> PTT_IN working.
>
> Hi Russell,
>
> You need to ensure that the transceiver options have this pin listed as
> PTT to TX as this is what it's called on the options screen. PTT in on
> the transceiver options is what is used for a push to talk button to key
> KGKSDR software, like a button on the side of a mic.

Just thought of another one, have you got a mic input set for the
soundcard? Even if you are a CW only fan, a mic input (or some input)
is essential for the TX side to work. It will just inhibit otherwise
and can cause the effects you mention.

73,

Duncan
M0KGK

977. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 12:15:06 UTC
From: Russell Blair
Topic: 969 Message: 977

Duncan, this one did it a little mic gain and when I push the MOX I how get 10 vdc to turn the Tx on, Next I want to use my MFJ Keyer (model 422B) it has a side tone generator, it also has two ways to connect to the radio, I'l try and which one will work.

OH- does the amount of mic gain setting on the soundcard have a effect on the power-out at 1 wat I need all I can get ? .

Tnx for the help
Russell
--- Duncan Munro <m0kgk@...> wrote:

> Duncan Munro wrote:
> > Russell Blair wrote:
> >> Duncan, I got the interface made today, a
> question,
> >> The PTT_IN on the softrock needs about 10-12 vdc,
> all
> >> I'm getting is -9.34 vdc even when I push the MOX
> or
> >> the tune buttom. The setting for Com 1 (DB9) port
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> >> as you drawing (options setting). This is the
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> >> port that I was using to Tx with Rocky3.1
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> >> the same pins. I'l work on the CW after I get the
> >> PTT_IN working.
> >
> > Hi Russell,
> >
> > You need to ensure that the transceiver options
> have this pin listed as
> > PTT to TX as this is what it's called on the
> options screen. PTT in on
> > the transceiver options is what is used for a push
> to talk button to key
> > KGKSDR software, like a button on the side of a
> mic.
>
> Just thought of another one, have you got a mic
> input set for the
> soundcard? Even if you are a CW only fan, a mic
> input (or some input)

> is essential for the TX side to work. It will just
> inhibit otherwise
> and can cause the effects you mention.
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> 73,
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> Duncan
> M0KGK
>
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978. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 12:19:12 UTC
From: Duncan Munro
Topic: 969 Message: 978

Russell Blair wrote:

> OH- does the amount of mic gain setting on the
> soundcard have a effect on the power-out at 1 wat I
> need all I can get ? .

It will have a bearing for SSB but has no effect on CW.

73,

Duncan
M0KGK

979. Re: [kgksdr] MoKGK Program for SR40 TxRX

Yahoo group: kgksdr
Date: 2007-05-27 12:31:38 UTC
From: Russell Blair
Topic: 969 Message: 979

Ok, well I will need to play around with it because
RTTY uses SSB to Tx, and I see it also rasied to noise
floor up as I incersed the mic input.

Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
>
> > OH- does the amount of mic gain setting on the
> > soundcard have a effect on the power-out at 1 wat
> I
> > need all I can get ? .
>
> It will have a bearing for SSB but has no effect on
> CW.
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> 73,
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> Duncan
> M0KGK
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Russell Blair
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CALL ========= NC5O
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DOS# ========= 470
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http://tools.search.yahoo.com/shortcuts/#loc_weather

980. KGKSDR and Iambic keyer

Yahoo group: kgksdr
Date: 2007-05-27 20:50:28 UTC
From: f6fvy
Topic: 980 Message: 980

Hi Duncan and the list

I used KGKSDR 1.1 with a SR RX/TX 6.1 and it really rocks !
Unfortunately, I couldn't find any info to use a Iambic keyer (double paddle) with it, as it is currently possible woth Rocky and a proper interface (http://www.dxatlas.com/rocky/Paddle.gif).

Did I miss something ? If not, do you intend to implement it sometime (and use the same interface/pinout *please* ;-)).

Tnx for this great software !

73

Larry - F6FVY

981. Re: [kgksdr] KGKSDR and Iambic keyer

Yahoo group: kgksdr
Date: 2007-05-28 00:18:30 UTC
From: Duncan Munro
Topic: 980 Message: 981

f6fvy wrote:
> Hi Duncan and the list
>
> I used KGKSDR 1.1 with a SR RX/TX 6.1 and it really rocks !
> Unfortunately, I couldn't find any info to use a Iambic keyer (double
> paddle) with it, as it is currently possible woth Rocky and a proper
> interface (http://www.dxatlas.com/rocky/Paddle.gif).
>
> Did I miss something ? If not, do you intend to implement it sometime
> (and use the same interface/pinout *please* ;-)).

Hi Larry, I have had discussions offline with Alex VE3NEA who has provided me with details of the paddle connections used for Rocky. I can confirm that KGKSDR is currently being built up with Iambic A/B facilities and will use the same connections as Rocky.

As I write this, there is the hand key input as before, and also a keyboard input which works nicely. I should get the paddle side fixed in the next couple of weeks.

73,

Duncan
M0KGK

982. Re: [kgksdr] KGKSDR and Iambic keyer

Yahoo group: kgksdr
Date: 2007-05-28 00:58:27 UTC
From: Russell Blair
Topic: 980 Message: 982

Duncan, I got my MFJ-422B Electronic keyer working
with your interface, it wors very nice, for Ricky I
had to disassemble the keyer to get to the paddles but
with this interface I dont't, So I just might keep
what I have and I have had 3 QSO today.
Now to get the digital to work, had to use a (Y)
cable to get audio fron the MMVARI (RTTY & PSK)program
to the input (Mic) to the card for the SR40, had to
turn the MOX to turn the Tx on and then the hit a key
for the (PSK or RTTY) to TX out. A lot of buttons to
push. OH well I get it down pat. If there is a better
way I would like to know how to get the audio from the
MMVARI to the (Mic) input.

Tnx for all the help and it work great. !

Russell
--- Duncan Munro <m0kgk@...> wrote:

> f6fvy wrote:
> > Hi Duncan and the list
> >
> > I used KGKSDR 1.1 with a SR RX/TX 6.1 and it
> really rocks !
> > Unfortunately, I couldn't find any info to use a
> Iambic keyer (double
> > paddle) with it, as it is currently possible woth
> Rocky and a proper
> > interface
> (http://www.dxatlas.com/rocky/Paddle.gif).
> >
> > Did I miss something ? If not, do you intend to
> implement it sometime
> > (and use the same interface/pinout *please* ;-)).
>
> Hi Larry, I have had discussions offline with Alex
> VE3NEA who has
> provided me with details of the paddle connections
> used for Rocky. I
> can confirm that KGKSDR is currently being built up
> with Iambic A/B
> facilities and will use the same connections as
> Rocky.
>
> As I write this, there is the hand key input as
> before, and also a

> keyboard input which works nicely. I should get the
> paddle side fixed
> in the next couple of weeks.
>
>
> 73,
>
> Duncan
> M0KGK
>

==========
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==========
Russell Blair
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CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
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http://answers.yahoo.com/dir/?link=list&sid=396545469

983. RTTY and PSK with MoKGK

Yahoo group: kgksdr
Date: 2007-05-28 03:21:58 UTC
From: Russell Blair
Topic: 983 Message: 983

I'm trying to get MMVARI mult mode working for the
most part I have it working, but I'm using a (Y) cable
from the speaker out from the SR40 to the MMVARI input
in Mono and a (Y) cable for the audio out to the (MIC)
input of the SR40 is where I'm loading down as a
bridge taping the audio, and the RX senisitive is
going down.
What can I do to get the audio from the RTTY or PSK
to the input of the SD40. and not affect the RX. Need
some help from u-all that are working PSK and RTTY.
I'm just about there. Maybe a 1:1 audio Tranformer ?.

Tnx Russell

==========
IN GOD WE TRUST !
==========
Russell Blair
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CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

8:00? 8:25? 8:40? Find a flick in no time
with the Yahoo! Search movie showtime shortcut.
http://tools.search.yahoo.com/shortcuts/#news

984. MultiPSK and KGKSDR working togeather

Yahoo group: kgksdr
Date: 2007-06-07 12:40:42 UTC
From: Russell Blair
Topic: 984 Message: 984

I was able to get MultiPSK and KGKSDR program working
with the help of (loop.dll). Had a QSO with a station
in Va on PSK last night on 30m, I was calling CQ on
RTTY (30m & 40m) but was unable to find anyone on, I
will keep trying. So the trimmer in the force last
night was me when the two programs working....now the
info sayes with one soundcard, I will pull out my 2nd
soundcard and see if that true. All this info can be
seen on (hb9tlk.selfip.com/softrock/loopdll.zip).
Thier was an earlier email by cesco12342000 tell how
to use the loop.dll.
CU on Digital mode ?

Russell NC5O

==========
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==========
Russell Blair
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http://mobile.yahoo.com/go?refer=1GNXIC

985. Re: [kgksdr] MultiPSK and KGKSDR working togeather

Yahoo group: kgksdr
Date: 2007-06-07 17:58:43 UTC
From: Duncan Munro
Topic: 984 Message: 985

Russell Blair wrote:

> CU on Digital mode ?

Hi Russell, you may well do. Using Cesco's loop.dll and multipsk I have
now worked 20 countries on the Softrock using PSK including USA :-)

73,

Duncan
M0KGK

986. Re: [kgksdr] MultiPSK and KGKSDR working togeather

Yahoo group: kgksdr
Date: 2007-06-07 18:15:38 UTC
From: Russell Blair
Topic: 984 Message: 986

Tnx Duncan, need to get the IMD ajusted and all will
be doing fine.

73 Russell NC5O
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
>
> > CU on Digital mode ?
>
> Hi Russell, you may well do. Using Cesco's loop.dll
> and multipsk I have
> now worked 20 countries on the Softrock using PSK
> including USA :-)
>
> 73,
>
> Duncan
> M0KGK
>
>
>

==========
IN GOD WE TRUST !
==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300
DOS# ========= 470
==========

You snooze, you lose. Get messages ASAP with AutoCheck
in the all-new Yahoo! Mail Beta.
http://advision.webevents.yahoo.com/mailbeta/newmail_html.html

987. again the floatinf point error

Yahoo group: kgksdr
Date: 2007-06-15 20:45:05 UTC
From: f4fft
Topic: 987 Message: 987

hello duncan and all other
i come again with the floating point error !
i use softrock 6 and the sound card is a m audio transit
the problem for me is when i do the calibration manually all is good
i can attenuate image with 50 dB but when a click ok to finish the
processus i have the message (floating point error)
before clicking if i connect an antenna in place of the generator, i
can see the calibration is good this is only when i click ok that the
message come and i come crazy with !!!
please can you help me ?

988. Interfacing MMVARI & RXTX & KGKSDR

Yahoo group: kgksdr
Date: 2007-06-26 13:43:24 UTC
From: Ray Benton
Topic: 988 Message: 988

Hi Duncan and all,

I would like to use the software MMVARI with my RXTX & kgksdr.
I am able to get the ptt to work and I can recieve data from mmvari ok.
The problem is getting the data from the mmvari program into the rxrx
to transmitt. I can hear the tones in the monitor speaker, but
I can not figure why it won't transmitt.

My computer is an xp and soundcard is Delta-44. I have it connected
for a single soundcard setup and it works well with winpsk and
multipsk. However I would like very much to run mmvari .. I think it
is a much "easier" program to use as it provides a cleaner (less
encoumbered screen than multipsk.

Has anyone got any suggestions to solve this problem? Thanks Ray W7RJC

989. Re: [kgksdr] Interfacing MMVARI & RXTX & KGKSDR

Yahoo group: kgksdr
Date: 2007-06-26 13:48:03 UTC
From: Duncan Munro
Topic: 988 Message: 989

Ray Benton wrote:
> Hi Duncan and all,
>
> I would like to use the software MMVARI with my RXTX & kgksdr.
> I am able to get the ptt to work and I can recieve data from mmvari ok.
> The problem is getting the data from the mmvari program into the rxrx
> to transmitt. I can hear the tones in the monitor speaker, but
> I can not figure why it won't transmitt.
>
> My computer is an xp and soundcard is Delta-44. I have it connected
> for a single soundcard setup and it works well with winpsk and
> multipsk. However I would like very much to run mmvari .. I think it
> is a much "easier" program to use as it provides a cleaner (less
> encoumbered screen than multipsk.
>
> Has anyone got any suggestions to solve this problem? Thanks Ray W7RJC

Hi Ray,

I assume you have some kind of cable to get the output of mmvari into
the mic (or line) input for KGKSDR? Just trying to picture how it is
connected up on the TX side.

73,

Duncan
M0KGK

990. Re: to Duncan .. Interfacing MMVARI & RXTX & KGKSDR

Yahoo group: kgksdr
Date: 2007-06-26 19:00:42 UTC
From: Ray Benton
Topic: 988 Message: 990

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray Benton wrote:
> > Hi Duncan and all,
> >
> > I would like to use the software MMVARI with my RXTX & kgksdr.
> > I am able to get the ptt to work and I can recieve data from
mmvari ok.
> > The problem is getting the data from the mmvari program into the
rxrx
> > to transmitt. I can hear the tones in the monitor speaker, but
> > I can not figure why it won't transmitt.
> >
> > My computer is an xp and soundcard is Delta-44. I have it
connected
> > for a single soundcard setup and it works well with winpsk and
> > multipsk. However I would like very much to run mmvari .. I
think it
> > is a much "easier" program to use as it provides a cleaner (less
> > encoumbered screen than multipsk.
> >
> > Has anyone got any suggestions to solve this problem? Thanks Ray
W7RJC
>
> Hi Ray,
>
> I assume you have some kind of cable to get the output of mmvari
into
> the mic (or line) input for KGKSDR? Just trying to picture how it
is
> connected up on the TX side.
>
> 73,
>
> Duncan
> M0KGK
>
Hi Duncan
I am connected up the way G0BBL Jan Verduyn describes in his drawing
titled "Softrock RXTXv6.1 Transceiver Connections for M0kgk
software -minimum configuration" (in the files area in this group.
There is a cable from my computer line-out to the RXTX I/Q TX-in. Is
this the cable your refering to?

.. guess I'm not quiet sure what connections I would make with the cable U mentioned. Would it run from the speaker output on the delta 44 to the mic or line input on the delta 44. If this is true would I run KGKSDR in ssb mode or data mode.
Why would I need any different cable setup than I use for the other programs which run ok. (winpsk .. multipsk) Sorry to be such a dunce guess I need to have a better understanding of how all this interconnects.Thanks .. Ray W7RJC

991. Using two soundcards (MMTTY)

Yahoo group: kgksdr
Date: 2007-06-27 16:37:34 UTC
From: Russell Blair
Topic: 991 Message: 991

To All, if you using a 3nd party program that has a analog audio out put as in MMTTY thats one sound card,or other programs, and the 2nd card is for KGKSDR program thats requires I&Q data stream, it would need to have Line-in and Line-out for I&Q and a Mic for the audio from the MMTTY program, so the 2nd card would convert the audio to I&Q to be able to TX via softrock. I'm going to try to use VAC and not use a card for MMTTY just connect it via the PC bus, and see if I can get that to work. but that will be in a few weeks, But if we had a way to convert audio tones from the MMTTY to I&Q data stream suiteable for input to the softrock. Their's only going to be a few hundred for these and a lot of question about how to use program (XXXXXXX) along with KGKSDR and Rocky to the Softrock40.

Russell NC5O

==========
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==========
Russell Blair
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CALL ========= NC5O
GRID ========= EM12px
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Boardwalk for $500? In 2007? Ha! Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.
http://get.games.yahoo.com/proddesc?gamekey=monopolyherenow

992. Re: [kgksdr] Using two soundcards (MMTTY)

Yahoo group: kgksdr
Date: 2007-06-27 16:50:48 UTC
From: Duncan Munro
Topic: 991 Message: 992

Russell Blair wrote:
> softrock. I'm going to try to use VAC and not use a
> card for MMTTY just connect it via the PC bus, and see
> if I can get that to work. but that will be in a few
> weeks, ...

Hi Russell,

I'm just putting together a diagram to show how to connect up MMTTY, MixW, etc. with KGKSDR for Ray and will post here when it's done.

On the note above, VAC should work nicely with Rocky but won't work with KGKSDR due to the ASIO drivers (I have had no success getting it to work with ASIO or ASIO4all).

73,

Duncan
M0KGK

993. Re: [kgksdr] Using two soundcards (MMTTY)

Yahoo group: kgksdr
Date: 2007-06-27 17:14:06 UTC
From: Russell Blair
Topic: 991 Message: 993

Tnx Duncan, I perfer to use your KGKSDR, now is you
keyer applacation coming, adding it to KGKSDR. That
saved me a lot of time trying to get VAC it to work.

Just let me know Tnx

Russell NC5O
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > softrock. I'm going to try to use VAC and not use
> a
> > card for MMTTY just connect it via the PC bus, and
> see
> > if I can get that to work. but that will be in a
> few
> > weeks, ...
>
> Hi Russell,
>
> I'm just putting together a diagram to show how to
> connect up MMTTY,
> MixW, etc. with KGKSDR for Ray and will post here
> when it's done.
>
> On the note above, VAC should work nicely with Rocky
> but won't work with
> KGKSDR due to the ASIO drivers (I have had no
> success getting it to work
> with ASIO or ASIO4all).
>
> 73,
>
> Duncan
> M0KGK
>

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994. Re: [kgksdr] Using two soundcards (MMTTY)

Yahoo group: kgksdr
Date: 2007-06-27 17:19:32 UTC
From: Duncan Munro
Topic: 991 Message: 994

Russell Blair wrote:
> Tnx Duncan, I perfer to use your KGKSDR, now is you
> keyer applacation coming, adding it to KGKSDR. That
> saved me a lot of time trying to get VAC it to work.

The keyer side is going very badly and I'm getting a lot of delays and
timing errors. Still trying to track down the best way of approaching
it, but it may involve a lot more re-writing than I had initially planned.

73,

Duncan
M0KGK

995. Re: [kgksdr] Using two soundcards (MMTTY)

Yahoo group: kgksdr
Date: 2007-06-27 17:38:34 UTC
From: Russell Blair
Topic: 991 Message: 995

Well Duncan sorry to hear that but bear with though it
and it will work like a champ and be a very good
addition to KGKSDR program.

Russell NC5O

--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Tnx Duncan, I perfer to use your KGKSDR, now is
> you
> > keyer applacation coming, adding it to KGKSDR.
> That
> > saved me a lot of time trying to get VAC it to
> work.
>
> The keyer side is going very badly and I'm getting a
> lot of delays and
> timing errors. Still trying to track down the best
> way of approaching
> it, but it may involve a lot more re-writing than I
> had initially planned.
>
> 73,
>
> Duncan
> M0KGK
>
>
>

==========
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996. Re: Using two soundcards (MMTTY) from RAY W7RJC

Yahoo group: kgksdr
Date: 2007-06-27 18:02:07 UTC
From: Ray Benton
Topic: 991 Message: 996

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

>Hi Duncan
Thanks VERY much for your help with my interfacing problem. I will
be looking forward to the diagram. life in ham radio is so good when
I have the opertunity to work with guys like you.
Thanks also to Russell for his comments and help. Ray W7RJC

> Russell Blair wrote:
> > softrock. I'm going to try to use VAC and not use a
> > card for MMTTY just connect it via the PC bus, and see
> > if I can get that to work. but that will be in a few
> > weeks, ...
>
> Hi Russell,

> I'm just putting together a diagram to show how to connect up
MMTTY,
> MixW, etc. with KGKSDR for Ray and will post here when it's done.
>
> On the note above, VAC should work nicely with Rocky but won't
work with
> KGKSDR due to the ASIO drivers (I have had no success getting it
to work
> with ASIO or ASIO4all).
>
> 73,
>
> Duncan
> M0KGK
>

997. Two soundcards with kgksdr

Yahoo group: kgksdr
Date: 2007-07-02 11:27:46 UTC
From: Ray Benton
Topic: 997 Message: 997

Duncan ..
I'm wondering if I can use the computers onboard soundcard as one of the two soundcards when I get your diagram of how to hook up KGKSDR with my Delta-44 and a second card? If not what do you recommend as a good second card? I have looked at several sound blaster cards .. what inputs and outputs do I need?
Thanks Ray W7RJC

998. Recommended USB sound cards

Yahoo group: kgksdr
Date: 2007-07-02 14:46:27 UTC
From: Tom Rowley
Topic: 998 Message: 998

Hi All

Does anyone have recommendedations for a USB external sound card? I have only laptops (Dell).

Tom. w2ter

999. Diagram for two soundcards with RXTX

Yahoo group: kgksdr
Date: 2007-07-06 00:12:48 UTC
From: Ray Benton
Topic: 999 Message: 999

Hi Duncan .. Just wondering if I missed your post on the two soundcard diagram you were doing for me. On the other hand I know you have been busy and I can wait. Thanks Ray W7rjc

1000. Test message

Yahoo group: kgksdr
Date: 2007-07-17 12:28:21 UTC
From: Russell Blair
Topic: 1000 Message: 1000

Just testing to see if this group is still alive and kicking. We have not had a messages from this group in weeks.

Russell NC5O

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Russell Blair
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1001. Re: [kgksdr] Test message

Yahoo group: kgksdr
Date: 2007-07-17 13:03:02 UTC
From: Duncan Munro
Topic: 1000 Message: 1001

Russell Blair wrote:
> Just testing to see if this group is still alive and
> kicking. We have not had a messages from this group in
> weeks.

Hi Russell, the group is still alive, just that nobody has posted anything!

73,

Duncan
M0KGK

1002. Re: [kgksdr] Keyer addition

Yahoo group: kgksdr
Date: 2007-07-17 14:45:35 UTC
From: Russell Blair
Topic: 1000 Message: 1002

Tnx Duncan, Nice to hear from you , well I guess avery one do fine, how is you Keyer coming a long with the program ? I ordered the softrock 30m/20m RXTX from Tony yesterday it should be in about 3 weeks and then I will start getting it togeather, Looking forward to using you program on 20m QRP.

73 Russell

--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Just testing to see if this group is still alive
> and
> > kicking. We have not had a messages from this
> group in
> > weeks.
>
> Hi Russell, the group is still alive, just that
> nobody has posted anything!
>
> 73,
>
> Duncan
> M0KGK
>
>
>

==========
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http://new.toolbar.yahoo.com/toolbar/features/mail/index.php

1003. Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 17:34:47 UTC
From: Duncan Munro
Topic: 1003 Message: 1003

I've just uploaded 4 connection diagrams to the Files -> KGKSDR TX area, these deal with a number of different ways that KGKSDR and the softrock can be wired.

1. A single soundcard

2. Dual soundcards

3. M-Audio Delta 44 or Delta 66

3a. Delta 44 with internal soundcard for external digimodes.

73,

Duncan
M0KGK

1004. Re: Keyer addition

Yahoo group: kgksdr
Date: 2007-07-17 17:37:00 UTC
From: Duncan Munro
Topic: 1000 Message: 1004

--- In kgksdr@yahoogroups.com, Russell Blair <russell_blair86@...> wrote:
>
> Tnx Duncan, Nice to hear from you , well I guess avery
> one do fine, how is you Keyer coming a long with the
> program ? I ordered the softrock 30m/20m RXTX from
> Tony yesterday it should be in about 3 weeks and then
> I will start getting it togeather, Looking forward to
> using you program on 20m QRP.

The keyer side is not doing so good although I haven't totally given
up yet, I may make it a seperate app and interface into KGKSDR.

73,

Duncan
M0KGK

1005. Re: Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 18:24:28 UTC
From: ozziewicm
Topic: 1003 Message: 1005

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> I've just uploaded 4 connection diagrams to the Files -> KGKSDR TX
> area, these deal with a number of different ways that KGKSDR and the
> softrock can be wired.
>
> 1. A single soundcard
>
> 2. Dual soundcards
>
> 3. M-Audio Delta 44 or Delta 66
>
> 3a. Delta 44 with internal soundcard for external digimodes.
>
> 73,
>
> Duncan
> M0KGK
>

Duncan,

Many Thanks for the new files...

73

Ozzie, W6ICM

1006. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 19:21:41 UTC
From: Russell Blair
Topic: 1003 Message: 1006

Duncan, Tnx for the drawings, I just printed off the drawings, I think the question was how to get MMTTY to work with KGKSDR. In option 2: Dual soundcards is card 1 and card 2 connect via the PC bus via (ASIO or ASIO4all), so the #1 line in <from softrock RX out> will be connect to #2 line out, and the Mic of #2 is connected to #1 line out to <softrock TX> in, or I'm I assumeing thats whats is happening.

Thanks Russell

--- Duncan Munro <m0kgk@...> wrote:

> I've just uploaded 4 connection diagrams to the
> Files -> KGKSDR TX
> area, these deal with a number of different ways
> that KGKSDR and the
> softrock can be wired.
>
> 1. A single soundcard
>
> 2. Dual soundcards
>
> 3. M-Audio Delta 44 or Delta 66
>
> 3a. Delta 44 with internal soundcard for external
> digimodes.
>
> 73,
>
> Duncan
> M0KGK
>
>
>

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that gives answers, not web links.
http://mobile.yahoo.com/mobileweb/onesearch?refer=1ONXIC

1007. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 19:46:20 UTC
From: Duncan Munro
Topic: 1003 Message: 1007

Russell Blair wrote:
> Duncan, Tnx for the drawings, I just printed off the
> drawings, I think the question was how to get MMTTY to
> work with KGKSDR. In option 2: Dual soundcards is card
> 1 and card 2 connect via the PC bus via (ASIO or
> ASIO4all), so the #1 line in <from softrock RX out>
> will be connect to #2 line out, and the Mic of #2 is
> connected to #1 line out to <softrock TX> in, or I'm I
> assumeing thats whats is happening.

Hi Russell, the only diagram which will address MMTTY is 3a. Diagram 2 is for a dual card RX/TX and will not work with MMTTY. It needs a variation on diagram 1 with a second card to do what you are proposing, I'm not sure if it can be done, but will look a it now and draw it up if it can.

73,

Duncan
M0KGK

1008. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 20:04:46 UTC
From: Duncan Munro
Topic: 1003 Message: 1008

Russell Blair wrote:
> Duncan, Tnx for the drawings, I just printed off the
> drawings, I think the question was how to get MMTTY to
> work with KGKSDR. In option 2: Dual soundcards is card
> 1 and card 2 connect via the PC bus via (ASIO or
> ASIO4all), so the #1 line in <from softrock RX out>
> will be connect to #2 line out, and the Mic of #2 is
> connected to #1 line out to <softrock TX> in, or I'm I
> assumeing thats whats is happening.

Hi Russell, it can be done (with some caveats) and I've uploaded diagram 2a. Please note that I have not tested this and have a sneaky feeling that an attenuator would be a good idea between the line out of card 2 and the mic in of card 1.

73,

Duncan
M0KGK

1009. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 20:45:05 UTC
From: Russell Blair
Topic: 1003 Message: 1009

Hi Duncan
I think I have tryed this but I will go back and do
it agin, but the line in on card 2 would need to be
mono, now the line out of card 2 would also be mono,
because the Mic input. But I will try it anyway. Tnx
for the help.

Russell
--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Duncan, Tnx for the drawings, I just printed off
> the
> > drawings, I think the question was how to get
> MMTTY to
> > work with KGKSDR. In option 2: Dual soundcards is
> card
> > 1 and card 2 connect via the PC bus via (ASIO or
> > ASIO4all), so the #1 line in <from softrock RX
> out>
> > will be connect to #2 line out, and the Mic of #2
> is
> > connected to #1 line out to <softrock TX> in, or
> I'm I
> > assumeing thats whats is happening.
>
> Hi Russell, it can be done (with some caveats) and
> I've uploaded diagram
> 2a. Please note that I have not tested this and
> have a sneaky feeling
> that an attenuator would be a good idea between the
> line out of card 2
> and the mic in of card 1.
>
>
> 73,
>
> Duncan
> M0KGK
>

==========
IN GOD WE TRUST !
==========
Russell Blair
QTH ========= Richardson Tx

CALL ========= NC5O
GRID ========= EM12px
FH# ========= 300
DOS# ========= 470
==========

Food fight? Enjoy some healthy debate
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1010. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 21:00:38 UTC
From: Duncan Munro
Topic: 1003 Message: 1010

Russell Blair wrote:
> Hi Duncan
> I think I have tryed this but I will go back and do
> it agin, but the line in on card 2 would need to be
> mono, now the line out of card 2 would also be mono,
> because the Mic input. But I will try it anyway. Tnx
> for the help.

Hi Russell,

I need to tidy up the diagrams to clarify what's stereo/mono on there.
As you say, for line in on card 2 connect L+R inputs together in the
plug so the mono signal feeds both channels, and line out of card 2 just
pick the L channel.

73,

Duncan
M0KGK

1011. Re: Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 21:09:50 UTC
From: Ray Benton
Topic: 1003 Message: 1011

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
Hi Duncon, Thanks for the diagrams .. I will look them over later
this nite. Thanks again Ray W7RJC

> I've just uploaded 4 connection diagrams to the Files -> KGKSDR TX
> area, these deal with a number of different ways that KGKSDR and
the
> softrock can be wired.
>
> 1. A single soundcard
>
> 2. Dual soundcards
>
> 3. M-Audio Delta 44 or Delta 66
>
> 3a. Delta 44 with internal soundcard for external digimodes.
>
> 73,
>
> Duncan
> M0KGK
>

1012. Re: [kgksdr] Connection diagrams

Yahoo group: kgksdr
Date: 2007-07-17 23:31:01 UTC
From: Russell Blair
Topic: 1003 Message: 1012

Ok, Duncan now this will help to get things going
because if this work we can use all most any 3rd party
software with the KGKSDR software (JT65A) mode as
well.

Thanks Russell

--- Duncan Munro <m0kgk@...> wrote:

> Russell Blair wrote:
> > Hi Duncan
> > I think I have tryed this but I will go back and
> do
> > it agin, but the line in on card 2 would need to
> be
> > mono, now the line out of card 2 would also be
> mono,
> > because the Mic input. But I will try it anyway.
> Tnx
> > for the help.
>
> Hi Russell,
>
> I need to tidy up the diagrams to clarify what's
> stereo/mono on there.
> As you say, for line in on card 2 connect L+R inputs
> together in the
> plug so the mono signal feeds both channels, and
> line out of card 2 just
> pick the L channel.
>
>
> 73,
>
> Duncan
> M0KGK
>

==========
IN GOD WE TRUST !
==========
Russell Blair
QTH ========= Richardson Tx
CALL ========= NC5O
GRID ========= EM12px
FH# ========== 300

DOS# ========= 470
==========

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1013. Graphical display nonlinearity in frequency response

Yahoo group: kgksdr
Date: 2007-07-18 07:32:32 UTC
From: aleman66
Topic: 1013 Message: 1013

Hello,
let me first explain my homemade transceiver. It is working in the 1.8 MHz - 146 MHz bands with an AD9958 DDS, active I/Q Mixer for up and downconverting, Mosfet Amp. and some band filters.
The PC has an 96kHz/16Bit onboard soundcard and a pluged in creative extreme audio 96kHz/24 bit soundcard.
Receiving on several bands works fine for AM and USB/LSB. I am not shure about FM.
I made some test with a hf signal generator to check the dynamic range.
The problem occurs, when i tune the signal generator over the audio frequency range of the sound card. The graphic display shows level differences of 10 - 20 dB. The s-meter, set to dBm readout shows always the correct, stable value.
Maybe this is just a problem of the graphic card resolution, i don´t know. I am using the onboard geforce 6100 with 1024x768.
Finally, let me say that kgksdr is overall a really good work. Very impressive is that "guess" funktion for rx cal.
regards,
Lutz, DL2DBJ

1014. Re: [kgksdr] Graphical display nonlinearity in frequency response

Yahoo group: kgksdr
Date: 2007-07-18 20:07:06 UTC
From: Duncan Munro
Topic: 1013 Message: 1014

aleman66 wrote:

> I made some test with a hf signal generator to check the dynamic range.
> The problem occurs, when i tune the signal generator over the audio
> frequency range of the sound card. The graphic display shows level
> differences of 10 - 20 dB. The s-meter, set to dBm readout shows
> always the correct, stable value.
> Maybe this is just a problem of the graphic card resolution, i don?t
> know. I am using the onboard geforce 6100 with 1024x768.

Hi, this isn't a problem with the graphics card, it's more with the FFT
and the way the signal is spread across bins. The effect could be
minimised, but that would require more processing power and I try to
avoid that as it's frequently an issue for people :-)

73,

Duncan
M0KGK

1015. Re: Graphical display nonlinearity in frequency response

Yahoo group: kgksdr
Date: 2007-07-19 07:05:27 UTC
From: aleman66
Topic: 1013 Message: 1015

thanks for your explaination. I know that fft algorithm takes some calculation time. At least i am shure now that it is not caused by a wrong setup on my hardware.
regards
Lutz, DL2DBJ

1016. Auto-calibration range

Yahoo group: kgksdr
Date: 2007-07-19 18:49:59 UTC
From: Dave
Topic: 1016 Message: 1016

Does KGKSDR limit the range of phase values it will learn during auto calibration? I have a Dell Inspiron laptop and its stereo input seems to have about half of a 48K sample time offset between the two channels (around 10 microseconds). Using manual calibration and its guesses I end up with something like 100 degrees of phase offset between the channels at 20kHz from center, but auto calibration only seems to learn points between -3kHz and +3kHz from center (something like 15 degrees of offset).

The same SoftRock hardware shows little phase offset with my desktop machine and its Delta 44 card, so I'm sure it's the goofy laptop introducing the unusual offset.

Dave, WA3OFF

1017. Using multiple SoftRock kits with MOKGK.

Yahoo group: kgksdr
Date: 2007-07-19 19:09:39 UTC
From: Roderick Wall
Topic: 1017 Message: 1017

Hi everyone,

I'm new to this group.

I've asked the following question on the SoftRock group but didn't get an answer for MOKGK.

I have two SoftRock RxTxv6.2 kits, one a 40/30m and the other an 80m kit. And I have on order a RxTxv6.2 20m kit. I only have one copy of MOKGK installed.

My question is, does MOKGK have a separate Rx and Tx Calibration map (for I/Q calibration) for each frequency (and each kit) that I have set up?

When I swap the RxTx transceivers between different kits, would the RX and TX calibrations be correct for each kit.

Regards,

Roderick Wall, VK3BKO.

1018. Re: Using multiple SoftRock kits with MOKGK.

Yahoo group: kgksdr
Date: 2007-07-19 20:13:17 UTC
From: Dave
Topic: 1017 Message: 1018

KGKSDR creates a set of calibration files for each entry line on the Transceiver Options->Frequencies tab (and for each different sample rate used for that entry).

You'll find the calibration files in the Documents and Settings\username\Application Data\Duncan Amplification\KGKSDR directory.

Dave, WA3OFF

--- In kgksdr@yahoogroups.com, "Roderick Wall" <rwallmail@...> wrote:
>
> Hi everyone,
>
> I'm new to this group.
>
> I've asked the following question on the SoftRock group but didn't get an answer for MOKGK.
>
> I have two SoftRock RxTxv6.2 kits, one a 40/30m and the other an 80m kit. And I have on order a RxTxv6.2 20m kit. I only have one copy of MOKGK installed.
>
> My question is, does MOKGK have a separate Rx and Tx Calibration map (for I/Q calibration) for each frequency (and each kit) that I have set up?
>
> When I swap the RxTx transceivers between different kits, would the RX and TX calibrations be correct for each kit.
>
> Regards,
>
> Roderick Wall, VK3BKO.
>

1019. Re: [kgksdr] Re: Using multiple SoftRock kits with MOKGK.

Yahoo group: kgksdr
Date: 2007-07-19 20:47:01 UTC
From: Roderick Wall
Topic: 1017 Message: 1019

Hi Dave,

Thanks for your information. You've answered my question.

One last question, Does MOKGK have SSB Transmit of does it only have CW transmit mode?

Thanks for your help,

Roderick Wall, VK3BKO.

----- Original Message -----
From: Dave
To: kgksdr@yahoogroups.com
Sent: Friday, July 20, 2007 6:13 AM
Subject: [kgksdr] Re: Using multiple SoftRock kits with MOKGK.

KGKSDR creates a set of calibration files for each entry line on the Transceiver Options->Frequencies tab (and for each different sample rate used for that entry).

You'll find the calibration files in the Documents and Settings\username\Application Data\Duncan Amplification\KGKSDR directory.

Dave, WA3OFF

--- In kgksdr@yahoogroups.com, "Roderick Wall" <rwallmail@...> wrote:
>
> Hi everyone,
>
> I'm new to this group.
>
> I've asked the following question on the SoftRock group but didn't get an answer for MOKGK.
>
> I have two SoftRock RxTxv6.2 kits, one a 40/30m and the other an 80m kit. And I have on order a RxTxv6.2 20m kit. I only have one copy of MOKGK installed.
>
> My question is, does MOKGK have a separate Rx and Tx Calibration map (for I/Q calibration) for each frequency (and each kit) that I have set up?
>
> When I swap the RxTx transceivers between different kits, would the RX and TX calibrations be correct for each kit.
>
> Regards,

>
> Roderick Wall, VK3BKO.
>

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1020. Re: [kgksdr] Auto-calibration range

Yahoo group: kgksdr
Date: 2007-07-19 21:07:18 UTC
From: Duncan Munro
Topic: 1016 Message: 1020

Dave wrote:

> The same SoftRock hardware shows little phase offset with my desktop
> machine and its Delta 44 card, so I'm sure it's the goofy laptop
> introducing the unusual offset.

Hi Dave,

You might want to experiment with the sample delay (as with the soundblaster cards) to see if this helps. Please remember to trash the calibration map after you change or the cal settings will have a mix of the delayed and undelayed info.

73,

Duncan
M0KGK

1021. Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2007-07-20 15:13:10 UTC
From: Dave
Topic: 1016 Message: 1021

> You might want to experiment with the sample delay

Yeah, I tried that. One of the sample offsets put the phase error roughly an equal amount in the opposite direction from the 0-sample-delay setting; that's how I came up with the 1/2-sample-offset estimate.

At first I spent a bunch of time trying different sample-offset settings and got only a little bit of auto calibration near zero. That's when I went to manual calibration and verified that a whole sample offset wasn't going to work any better. Seems like the sound-interface designers went out of their way to goof it up. Perhaps it's sampling at 96K internally and averaging every two samples to get 48K, producing the 1/2 sample offset from a whole sample offset at 96K. I haven't yet been able to get ASIO4ALL to provide the 96K sampling choice that this interface is supposed to support, but I think I'll give that some more effort. I may try KGKSDR 1.0 since I think that uses WDM instead of ASIO.

I was mainly curious if you had constrained the range of auto-adjustment.

Dave, WA3OFF

1022. "transceiver options->hardware2->rx event & tx event" is blank?

Yahoo group: kgksdr
Date: 2007-08-02 00:40:43 UTC
From: bg9dc
Topic: 1022 Message: 1022

Hello,
my on-board sound card is realtek HD Audio , "transceiver options->hardware2->rx event & tx event" is blank, why? when the morse key is pressed, the kgksdr is come into the transmitte status, but the speaker dosn't output any sound.
73

1023. S-9 calibration

Yahoo group: kgksdr
Date: 2007-08-20 16:47:52 UTC
From: Ray Benton
Topic: 1023 Message: 1023

Hi Duncan and all,

I have a Elecraft XG2 and used it to calibrate the S9 s-meter reading in KGKSDR. It seemed to work ok (the s-meter reads S9).. then I noticed that the signal peak on the spectrum was way down at -88db (according to the spectrum reading).

Have I done something wrong. I ASSUME the spectrum display should show a 50mv signal as about -73db.

Where have I gone wrong? Thanks Ray W7RJC

1024. Re: [kgksdr] S-9 calibration

Yahoo group: kgksdr
Date: 2007-08-20 17:22:58 UTC
From: Duncan Munro
Topic: 1023 Message: 1024

Ray Benton wrote:
> Hi Duncan and all,
>
> I have a Elecraft XG2 and used it to calibrate the S9 s-meter reading
> in KGKSDR. It seemed to work ok (the s-meter reads S9).. then I
> noticed that the signal peak on the spectrum was way down at -88db
> (according to the spectrum reading).
>
> Have I done something wrong. I ASSUME the spectrum display should show
> a 50mv signal as about -73db.
>
> Where have I gone wrong? Thanks Ray W7RJC

Hi Ray, you haven't gone wrong anywhere. This is the FFT display as you move from bin to bin the signal goes down and then up again so it's not useful for getting accurate readings.

You might want to check msg #1014 on July 18th - another op was having a similar issue.

73,

Duncan
M0KGK

1025. Re: reply to S-9 calibration reply

Yahoo group: kgksdr
Date: 2007-08-20 18:39:08 UTC
From: Ray Benton
Topic: 1023 Message: 1025

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ray Benton wrote:
> > Hi Duncan and all,
> >
> > I have a Elecraft XG2 and used it to calibrate the S9 s-meter
reading
> > in KGKSDR. It seemed to work ok (the s-meter reads S9).. then I
> > noticed that the signal peak on the spectrum was way down at -
88db
> > (according to the spectrum reading).
> >
> > Have I done something wrong. I ASSUME the spectrum display
should show
> > a 50mv signal as about -73db.
> >
> > Where have I gone wrong? Thanks Ray W7RJC
>
> Hi Ray, you haven't gone wrong anywhere. This is the FFT display
as you
> move from bin to bin the signal goes down and then up again so
it's not
> useful for getting accurate readings.
>
> You might want to check msg #1014 on July 18th - another op was
having a
> similar issue.
>
> 73,
>
> Duncan
> M0KGK
>
Thanks Duncan .. I understand now. I was hoping it would get the
heighth of the received signals a little more pronounced(taller) ..
thus easier to distinguish.
I tried powersdr-sr40 for a short time .. found it had a few fun
features but I'm back with KGKSDR (ya cann't beat it) Thanks
Duncan .. Ray W7RJC

1026. Re: [kgksdr] Re: reply to S-9 calibration reply

Yahoo group: kgksdr
Date: 2007-08-20 20:37:44 UTC
From: Duncan Munro
Topic: 1023 Message: 1026

Ray Benton wrote:

> Thanks Duncan .. I understand now. I was hoping it would get the
> heighth of the received signals a little more pronounced(taller) ..
> thus easier to distinguish.

Hi Ray, one thing that may go some way to help is to fiddle around with the display settings.

Options -> Transceiver... -> Display

If you change Spectrum Y high to a bigger negative number, the peaks will be higher. Click the [Apply] button to see the effect of your changes before pressing [OK].

Hope this is some help to you.

73,

Duncan
M0KGK

1027. Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-22 21:12:31 UTC
From: R. R. Robson
Topic: 1027 Message: 1027

Duncan:

I love this program! I am in the final stages of construction and testing of the SR RXTX V6.2 40/30m radio. I am having difficulties with the Transceiver software (V1.1).

My setup is a Toshiba Laptop running the latest SP of Windows XP. The laptop's internal soundcard is an AC97 mono input card. I have an installed Creative SB Live 24 bit External USB card. I used Creative's device control app to set the card at 96khz sampling and 24 bit.

I have ASIO4ALL v2.7 drivers installed.

The last time I successfully loaded the KGKSDR program I told it to use the Creative ASIO drivers. Shortly thereafter the program went into a hard lock and I had to kill it in Task Manager.

When I opened up the program again, I got a persistent error message box that advises me (and advises and advises . . . ; you have to kill the program's processes to remove the box) that I have an "Access violation at address 7E432828 in module USER32.dll. Read of address 00000000". Rebooting and trying to open up again had the same result. I then decided to uninstall the program, delete the maps, etc. in my application data folder, and reinstall.

After rebooting my laptop and starting up the installation for the program, installation got to the point of "let me finish the installation" and trying to load the newly installed program. After flashing the gif of the softrock board, it advised me with a message box titled "KGK SDR Transceiver KGKSDR1.1.EXE - Application Error", and displayed one of those classics of 20th Century Literature: "Instruction at 07C911C48 referenced memory at 0xffffff8. The memory could not be read".

Rocky and Winrad seem to work OK on RX (using SB Live for input and Ac97 for speakers - haven't tried TX yet). KGKSDR is DOA.

I am kind of at my wits end in getting KGKSDR to run. Any suggestions? I really do not want to go out and buy YASC (yet another sound card).

tx es 73 de robby wb5rvz

1028. Re: [kgksdr] Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-22 22:41:42 UTC
From: Duncan Munro
Topic: 1027 Message: 1028

R. R. Robson wrote:
> Duncan:
>
> I love this program! I am in the final stages of construction and
> testing of the SR RXTX V6.2 40/30m radio. I am having difficulties
> with the Transceiver software (V1.1).
>
> My setup is a Toshiba Laptop running the latest SP of Windows XP.
> The laptop's internal soundcard is an AC97 mono input card. I have
> an installed Creative SB Live 24 bit External USB card. I used
> Creative's device control app to set the card at 96khz sampling and
> 24 bit.
>
> I have ASIO4ALL v2.7 drivers installed.
>
> The last time I successfully loaded the KGKSDR program I told it to
> use the Creative ASIO drivers. Shortly thereafter the program went
> into a hard lock and I had to kill it in Task Manager.
>
> When I opened up the program again, I got a persistent error message
> box that advises me (and advises and advises . . . ; you have to
> kill the program's processes to remove the box) that I have
> an "Access violation at address 7E432828 in module USER32.dll. Read
> of address 00000000". Rebooting and trying to open up again had the
> same result. I then decided to uninstall the program, delete the
> maps, etc. in my application data folder, and reinstall.
>
> After rebooting my laptop and starting up the installation for the
> program, installation got to the point of "let me finish the
> installation" and trying to load the newly installed program. After
> flashing the gif of the softrock board, it advised me with a message
> box titled "KGK SDR Transceiver KGKSDR1.1.EXE - Application Error",
> and displayed one of those classics of 20th Century
> Literature: "Instruction at 07C911C48 referenced memory at
> 0xfffffff8. The memory could not be read".
>
> Rocky and Winrad seem to work OK on RX (using SB Live for input and
> Ac97 for speakers - haven't tried TX yet). KGKSDR is DOA.
>
> I am kind of at my wits end in getting KGKSDR to run. Any
> suggestions? I really do not want to go out and buy YASC (yet
> another sound card).

Hi Robby, have you set the sampling rate for KGKSDR to 48kHz? The AC97
will set the lowest common denominator on the system using ASIO4ALL

which will be 48k.

Also, if you are still having problems it may be through a corrupt cal map caused by trying to sample at 96k. If you go to Help -> Troubleshooting there are some tips on how to wipe them out.

73,

Duncan
M0KGK

1029. Re: [kgksdr] Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-22 23:15:27 UTC
From: Tim Gorman
Topic: 1027 Message: 1029

You should have an asio control panel somewhere. Go in and disable the onboard card. I have to do that in order to use my Audigy 2 NX USB sound card.

tim ab0wr
On Wednesday 22 August 2007 16:12, R. R. Robson wrote:
> Duncan:
>
> I love this program! I am in the final stages of construction and
> testing of the SR RXTX V6.2 40/30m radio. I am having difficulties
> with the Transceiver software (V1.1).
>
> My setup is a Toshiba Laptop running the latest SP of Windows XP.
> The laptop's internal soundcard is an AC97 mono input card. I have
> an installed Creative SB Live 24 bit External USB card. I used
> Creative's device control app to set the card at 96khz sampling and
> 24 bit.
>
> I have ASIO4ALL v2.7 drivers installed.
>
> The last time I successfully loaded the KGKSDR program I told it to
> use the Creative ASIO drivers. Shortly thereafter the program went
> into a hard lock and I had to kill it in Task Manager.
>
> When I opened up the program again, I got a persistent error message
> box that advises me (and advises and advises . . . ; you have to
> kill the program's processes to remove the box) that I have
> an "Access violation at address 7E432828 in module USER32.dll. Read
> of address 00000000". Rebooting and trying to open up again had the
> same result. I then decided to uninstall the program, delete the
> maps, etc. in my application data folder, and reinstall.
>
> After rebooting my laptop and starting up the installation for the
> program, installation got to the point of "let me finish the
> installation" and trying to load the newly installed program. After
> flashing the gif of the softrock board, it advised me with a message
> box titled "KGK SDR Transceiver KGKSDR1.1.EXE - Application Error",
> and displayed one of those classics of 20th Century
> Literature: "Instruction at 07C911C48 referenced memory at
> 0xffffff8. The memory could not be read".
>
> Rocky and Winrad seem to work OK on RX (using SB Live for input and
> Ac97 for speakers - haven't tried TX yet). KGKSDR is DOA.
>
> I am kind of at my wits end in getting KGKSDR to run. Any
> suggestions? I really do not want to go out and buy YASC (yet

> another sound card).
>
> tx es 73 de robby wb5rvz

1030. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 15:48:15 UTC
From: Richard Robson
Topic: 1027 Message: 1030
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1031. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 19:01:38 UTC
From: R. R. Robson
Topic: 1027 Message: 1031

--- In kgksdr@yahoogroups.com, "Richard Robson" <rrrobson@...> wrote:
> I believe I have just become fodder for the MS bashers.
>
> Is there any hope for me? It looks like I have installed a
witch's brew of
> software and hardware onto my long-suffering laptop that has
become my
> undoing.
> 73 and hopeful of some solution short of reinstalling the OS,
> de robby wb5rvz

Welll perhaps MS is off the hook. Turns out my laptop (hardware)
was having issues with the heat buildup due to some blockages of the
fans on the underside of the case.

I am able to boot up now, although all of the many abortive attempts
to do so, culminating in ill-timed powerdowns by the heat
protection, may have made my environment go squirrely on me.

I am going to try to completely uninstall kgksdr , clear out the cal
files, reboot, reinstall, and see what gives.

There is probably some recommended sequence of actions/commands to
go through before I start up KGKSDR.

Apparently, I must:
1. go to device control and set the sampling and bit depth to
48khz/16 bit (not 24 bit(
2. Go to the ASIO4ALL control panel and enable both the on-board
(AC97) and the USB (Creative) sound cards.
3. Go into KGKSDR's transceiver options and make settings
At this point I am quite mystified by the instructions. It seems to
be at this point that things continue to go south on me.

Film at 11

1032. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 19:43:43 UTC
From: R. R. Robson
Topic: 1027 Message: 1032

> There is probably some recommended sequence of actions/commands to
> go through before I start up KGKSDR.

OK. I uninstalled KGK. I deleted the entire Duncan Admin folder under my account. I rebooted. I reinstalled KGK taking all the same defaults. I started up KGK.

I went into Transceiver Options.
At this point I am at a loss of exactly what I should do. My desire is to be able to process RX and TX using the Creative SB Live 24 woth the maximum bandwidth possible. I would like to be able to hear the output on the internal speakers, which suggests I need to get the AC97 board into the mix.

I have WIN XP SP2 on my Toshiba laptop and I have installed the ASIO4ALL drivers.

1. I would very much appreciate some step-by-step instructions (other than what is in the help, which I simply could not relate to the above case) on precisely how to set up my computer/KGK to do what I need above. I have a big-time mental block.

2. If it turns out that the necessary actions/steps lead to my disabling my onboard sound card, I would also appreciate anyone's explaining to me what I would need to do to put my computer's sound board back into the mix for those times when I am NOT running KGK (e.g., hearing sounds while browsing the internet, etc.)

3. When I finish setting options and click OK to leave the options dialogue, nothing appears to be happening - no spectrun display, no sound, no nothing Thes is ome moderate CPU activity on the order of 7%, some occasional popping/crackling, but nothing else. The other programs I have used (Winrad, Rocky) immediately start "receiving" regardless of whether there is any input on the soundcard. Should I expect this in KGK? Or is it somehow able to know when the soundcard is getting IQ signals in from the hardware RX and, only then, displaying the spectrum I would expect to see?

1033. Re: [kgksdr] Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 19:46:10 UTC
From: Duncan Munro
Topic: 1027 Message: 1033

R. R. Robson wrote:

> Apparently, I must:
> 1. go to device control and set the sampling and bit depth to
> 48khz/16 bit (not 24 bit(
> 2. Go to the ASIO4ALL control panel and enable both the on-board
> (AC97) and the USB (Creative) sound cards.
> 3. Go into KGKSDR's transceiver options and make settings
> At this point I am quite mystified by the instructions. It seems to
> be at this point that things continue to go south on me.

Hi Robby, the 1-3 above sounds about right so when you've had a clear out and run through them shout me back and we'll go through it all.

Make sure you haven't damaged your CPU though, I have an IBM T41 here which misbehaved in a similar way to what you described in your previous post. It ended up having the whole motherboard replaced...

73,

Duncan
M0KGK

1034. Re: [kgksdr] Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 19:56:07 UTC
From: Duncan Munro
Topic: 1027 Message: 1034

R. R. Robson wrote:
>
>> There is probably some recommended sequence of actions/commands to
>> go through before I start up KGKSDR.
>
> OK. I uninstalled KGK. I deleted the entire Duncan Admin folder
> under my account. I rebooted. I reinstalled KGK taking all the
> same defaults. I started up KGK.
>
> I went into Transceiver Options.
> At this point I am at a loss of exactly what I should do. My desire
> is to be able to process RX and TX using the Creative SB Live 24
> woth the maximum bandwidth possible. I would like to be able to
> hear the output on the internal speakers, which suggests I need to
> get the AC97 board into the mix.
>
> I have WIN XP SP2 on my Toshiba laptop and I have installed the
> ASIO4ALL drivers.
>
> 1. I would very much appreciate some step-by-step instructions
> (other than what is in the help, which I simply could not relate to
> the above case) on precisely how to set up my computer/KGK to do
> what I need above. I have a big-time mental block.

OK, some recommended settings base on what I know from you are as follows:

[Hardware tab]

Driver: ASIO4ALL
RX IQ Input: Soundblaster
Speaker Out: AC97
Mic Input: AC97
TX IQ Output: Soundblaster
Samplerate: 48K
RX Sampling: Set to 'Delay right by 1 sample' if the display looks all wrong

[Hardware 2 tab]

Single card: unchecked

This should get you going.

> 2. If it turns out that the necessary actions/steps lead to my
> disabling my onboard sound card, I would also appreciate anyone's
> explaining to me what I would need to do to put my computer's sound
> board back into the mix for those times when I am NOT running KGK
> (e.g., hearing sounds while browsing the internet, etc.)

You should not have to disable the onboard sound, it's possible to remove it from ASIO4ALL (or at least disable it anyway).

> 3. When I finish setting options and click OK to leave the options
> dialogue, nothing appears to be happening - no spectrun display, no
> sound, no nothing Thes is ome moderate CPU activity on the order
> of 7%, some occasional popping/crackling, but nothing else. The
> other programs I have used (Winrad, Rocky) immediately
> start "receiving" regardless of whether there is any input on the
> soundcard. Should I expect this in KGK? Or is it somehow able to
> know when the soundcard is getting IQ signals in from the hardware
> RX and, only then, displaying the spectrum I would expect to see?

If you check the entries are as above, you should be getting something out. Make sure your softrock is not going into TX automatically - is the bar at the bottom of the screen in red?

73,

Duncan
M0KGK

1035. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 21:10:03 UTC
From: R. R. Robson
Topic: 1027 Message: 1035

Duncan:

Thanks for your patient and prompt response. See my answers interlaced below.

> OK, some recommended settings base on what I know from you are as follows:
>
> [Hardware tab]
>
> Driver: ASIO4ALL
> RX IQ Input: Soundblaster
> Speaker Out: AC97
> Mic Input: AC97
> TX IQ Output: Soundblaster
> Samplerate: 48K
> RX Sampling: Set to 'Delay right by 1 sample' if the display looks all wrong
>
> [Hardware 2 tab]
>
> Single card: unchecked
>
> This should get you going.

Yes, Thank you very much - it did get me going

> > 3. When I finish setting options and click OK to leave the options
> > dialogue, nothing appears to be happening - no spectrun display, no
> > sound, no nothing Thes is ome moderate CPU activity on the order
> > of 7%, some occasional popping/crackling, but nothing else.
<snip>
> If you check the entries are as above, you should be getting something
> out. Make sure your softrock is not going into TX automatically - is
> the bar at the bottom of the screen in red?

No, it is not red (at least I believe so; I am colorblind). It is definitely not the same as it is when I hit MOX or Tune buttons.

Perhaps this is by design, but when I do what you suggested and the SB Live does NOT have a cable attached to line in, nothing shows up on the display. When I connect a cable (not terminated on the other

end of the cable) I get the noise display I have come to expect on the other SDR programs. Is this as it should be?

Also, when I have none of that noise, I am getting the crackling noise others have reported. It seems to be drowned out by the noise when line in is cabled up.

Looks like we are making progress.

Another question: I noticed elsewhere that others have been able to get 96 KHZ with the SB Live 24. Is that out of the question with my setup?

tx es 73 de robby wb5rvz

1036. Re: [kgksdr] Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-23 22:38:26 UTC
From: Duncan Munro
Topic: 1027 Message: 1036

R. R. Robson wrote:

> Perhaps this is by design, but when I do what you suggested and the
> SB Live does NOT have a cable attached to line in, nothing shows up
> on the display. When I connect a cable (not terminated on the other
> end of the cable) I get the noise display I have come to expect on
> the other SDR programs. Is this as it should be?

Not sure, if the card shorts the inputs when nothing is plugged in then you won't see anything. The fact that you get a different response when plugging in a cable suggests that's what might be happening.

> Another question: I noticed elsewhere that others have been able to
> get 96 KHZ with the SB Live 24. Is that out of the question with my
> setup?

I'm afraid so. ASIO4ALL will work at the lowest common denominator which is the AC97 onboard setup and the 48k limitation associated with it. 96k will give you a wider frequency range, but 48k + 24bit is not a bad deal...

73,

Duncan
M0KGK

1037. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-24 16:06:27 UTC
From: Richard Robson
Topic: 1027 Message: 1037
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1038. Re: [kgksdr] Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-08-24 16:15:09 UTC
From: Duncan Munro
Topic: 1027 Message: 1038

Richard Robson wrote:
> Thanks, Duncan.
> Now all I have to deal with is the overheating on my laptop (something I
> just discovered is quite common with the Toshiba A75 S211 when you bump
> it up to 1 gb ram and load it down with heavy processing and USB power
> drain!)

I would keep an eye on this as SDR stuff really is continuous duty and
will stress your hardware more than, say, MS Word and Excel.

73,

Duncan
M0KGK

1039. A suggestion for the recording feature

Yahoo group: kgksdr
Date: 2007-08-28 00:35:56 UTC
From: Bruce Conner
Topic: 1039 Message: 1039

Duncan,

First off, let me congratulate you on a nice piece of software. I used it for the SKCC weekend sprint with my newly built Softrock 30/40 and it worked great with my bug and straight key.

I had an idea about the recording mode that might make a useful feature, if you are entertaining ideas for enhancements. There are video cameras that have a feature where they are always on, recording a continuous loop of 30 seconds (first in - first out). That way, if you have it pointed at something interesting, when you hit record, it actually records 30 seconds "back in time". I could see how that might be useful for recording DX contacts and such. It just loops away until you hit the button, and then you start recording on the end of the past 30 seconds or so, so you don't miss anything. There would be some CPU overhead and maybe some HD thrash possible, but I think it's doable. You'd want to have the "backward look" feature someting that could be turned off for performance, of course. Seem reasonable?

BTW, is there any way to get a horizontal waterfall display at present? I like the display in Rocky, but there's no straight key/bug mode for that so KGK wins hands down, but I do like the horizontal display!

Bruce
WB8OGK

1040. CPU Usage Observations

Yahoo group: kgksdr
Date: 2007-09-06 15:26:52 UTC
From: Dave
Topic: 1040 Message: 1040

I was doing some more experimenting with KGKSDR on my relatively new laptop machine and I noticed something interesting. I don't recall it being mentioned before, but CPU usage is quite low when the window is minimized. I'm wondering if the higher usage when not minimized is due to the display operations or is due to a need to process more of the spectrum to produce the display. Turning on or off Polyphase FFT or other display options makes only a small difference.

I also noticed that the laptop's power settings make a significant difference (I guess that should be obvious). The way I had the machine set, the processor was running only at half speed to increase battery life. Still, I think hiccups I'm observing in the audio output on this machine probably have more to do with DPC latency than raw processor speed. Even at half speed I see KGKSDR use less CPU% than I see it use on my desktop machine running at full speed. The app does seem to use both cores of the laptop's dual-core processor about equally.

Dave, WA3OFF

1041. Re: [kgksdr] CPU Usage Observations

Yahoo group: kgksdr
Date: 2007-09-06 15:49:50 UTC
From: Duncan Munro
Topic: 1040 Message: 1041

Dave wrote:
> I was doing some more experimenting with KGKSDR on my relatively new
> laptop machine and I noticed something interesting. I don't recall it
> being mentioned before, but CPU usage is quite low when the window is
> minimized. I'm wondering if the higher usage when not minimized is
> due to the display operations or is due to a need to process more of
> the spectrum to produce the display. Turning on or off Polyphase FFT
> or other display options makes only a small difference.

Hi Dave, I did do some monitoring a while back of the usage of each part of the software. I'll run again and publish here.

Display stuff could make a difference, although I guess this might depend on how much video acceleration there is?

> I also noticed that the laptop's power settings make a significant
> difference (I guess that should be obvious). The way I had the
> machine set, the processor was running only at half speed to increase
> battery life. Still, I think hiccups I'm observing in the audio output
> on this machine probably have more to do with DPC latency than raw
> processor speed. Even at half speed I see KGKSDR use less CPU% than
> I see it use on my desktop machine running at full speed. The app
> does seem to use both cores of the laptop's dual-core processor about
> equally.

To get rid of the hiccups, I normally increase the buffer size and that sorts it out nicely. Interesting comment about the dual core, KGKSDR is multi threaded but the majority of the work on the RX/TX version is carried out by the ASIO driver thread. There are probably other threads and windows activities spread to the other processor, but I don't know enough about dual core stuff under Windows to give any more than a guess on that one.

73,

Duncan
M0KGK

1042. Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-11 18:10:33 UTC
From: jeanrenier2004
Topic: 1042 Message: 1042

Duncan,

I am a SW listener and I use the KGKSDR decoder with the SR40 on a more or less regular basis, a great peace of software engineering. I also use it with a home build variable frequency front end (kind of flex-radio replica), most of the time I hook it up to various digimode programs (Multipsk, HRD, etc.) with a 2nd soundcard. Last I wanted to hook it to Dream (DRM decoder), then I realised that it would not work, since KGKSDR would need to output a 12kHz signal with a bandwidth of 10kHz and the SSB filter settings would not go so far.
Any suggestions ? would that be a suggestion for a future enhancement ?

All the best,
Jean.

1043. Re: [kgksdr] Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-11 19:09:35 UTC
From: Duncan Munro
Topic: 1042 Message: 1043

jeanrenier2004 wrote:
> Duncan,
>
> I am a SW listener and I use the KGKSDR decoder with the SR40 on a more
> or less regular basis, a great peace of software engineering. I also
> use it with a home build variable frequency front end (kind of flex-
> radio replica), most of the time I hook it up to various digimode
> programs (Multipsk, HRD, etc.) with a 2nd soundcard. Last I wanted to
> hook it to Dream (DRM decoder), then I realised that it would not work,
> since KGKSDR would need to output a 12kHz signal with a bandwidth of
> 10kHz and the SSB filter settings would not go so far.
> Any suggestions ? would that be a suggestion for a future enhancement ?

Hi Jean, can you point me to a spec of what is contained in the 12kHz signal?

73,

Duncan
M0KGK

1044. Re: Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-12 19:00:27 UTC
From: Jean Taeymans
Topic: 1042 Message: 1044

Duncan,

Wikipedia gives a short overview on the DRM signal (http://en.wikipedia.org/wiki/Digital_Radio_Mondiale), in short: the DRM transmissions use a 10kHz bandwidth filled by a large number of carriers (>200) which are each modulated by 64-QAM with symbols of ca. 26ms. Yielding a bit rate of about 20kbits for an almost CD quality sound.
There are several articles on the internet (http://agurk.dk/bjarke/Projects/DRM/DRM.htm) on how to modify a long, medium, short wave receiver, down converting the 455kHz to 12kHz usable in soundcards. Obviously the receiver bandwidth should be something like 12kHz with a reasonably flat frequency and phase response in the pass band. Once digitized by the soundcard (48kb/s, 16bit, mono) the Dream software takes care of all the rest to produce the sound.
Demodulating DRM with a QSD hardware front end is possible, tuning the LO 12kHz lower than the carrier frequency, however without any mirror frequency suppression. Hence, the idea to use KGKSDR as SSB mixer.

All the best,
Jean.

1045. Re: [kgksdr] Re: Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-12 19:24:38 UTC
From: Duncan Munro
Topic: 1042 Message: 1045

Jean Taeymans wrote:

> Demodulating DRM with a QSD hardware front end is possible, tuning the
> LO 12kHz lower than the carrier frequency, however without any mirror
> frequency suppression. Hence, the idea to use KGKSDR as SSB mixer.

Hi Jean, thank you very much for the info. Looking at the link for homebrewing stuff, it looks like LSB is being used with a bandwidth from -7kHz to -17kHz (10kHz overall).

I'm short of time right now but can probably pick this up at the weekend - it doesn't look too difficult to implement as RX mode only.

If I can sort out a version with this in would you be able to test for me? I have nothing which can pick up on DRM transmission frequencies.

73,

Duncan
M0KGK

1046. Re: [kgksdr] Re: Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-12 21:10:01 UTC
From: Jose_Angel Amador Fundora
Topic: 1042 Message: 1046

Duncan,

I am using an old russian radio to receive DRM using Dream.
I am converting the 85 kHz IF to 15 kHz using a 100 kHz xtal,
a CD4066, a CD4011 and a LM1458. So far it works, tuning into
DW, RNZI, Vatican Radio, etc.

I would be interested in testing the software as well.

I am using USB into the sound card line input.

Jose, CO2JA

---------- Original Message ----------
From: Duncan Munro <m0kgk@...>
Reply-To: kgksdr@yahoogroups.com
Date: Wed, 12 Sep 2007 20:24:38 +0100

>Jean Taeymans wrote:
>
>> Demodulating DRM with a QSD hardware front end is possible, tuning the
>> LO 12kHz lower than the carrier frequency, however without any mirror
>> frequency suppression. Hence, the idea to use KGKSDR as SSB mixer.
>
>Hi Jean, thank you very much for the info. Looking at the link for
>homebrewing stuff, it looks like LSB is being used with a bandwidth from
>-7kHz to -17kHz (10kHz overall).
>
>I'm short of time right now but can probably pick this up at the weekend
>- it doesn't look too difficult to implement as RX mode only.
>
>If I can sort out a version with this in would you be able to test for
>me? I have nothing which can pick up on DRM transmission frequencies.
>
>73,
>
>Duncan
>M0KGK
>
>
>
>
>Yahoo! Groups Links
>
>
>

>

_____ _____ _____ _____
Correo enviado por ElectroMAIL. Facultad Eléctrica. CUJAE Dominio: electrica.cujae.edu.cu

_____

Participe en Universidad 2008.
11 al 15 de febrero del 2008.
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.universidad2008.cu

1047. Re: Interface to Dream

Yahoo group: kgksdr
Date: 2007-09-13 18:52:35 UTC
From: Jean Taeymans
Topic: 1042 Message: 1047

Duncan,

Many thanks, Of course I'll be happy to test this, no problems.
But please don't feel obliged to rush this, I can wait.

All the best,
Jean.

1048. DDS control

Yahoo group: kgksdr
Date: 2007-09-26 01:04:03 UTC
From: dario_matteo
Topic: 1048 Message: 1048

Hello Duncan,

I would like to use your SW (a very good job) with YU1LM ADTRX1 radio.
I'm testing it in receive mode in this moment.
As DDS to drive this sdr radio, I'm using the DDS-60 card from AMqrp.
To control the DDS I wrote a a simple Windows program.

It would be interesting to have the possibility to control an external
DDS from your SW. A suggestion could be to call an external program
(or DLL) every time a frequency change is done. In this way, anybody
will be free to adapt it to its hw stuff.
I believe this could be very interetsing for the SDR comunity.

Thanks and regards, Dario.

1049. E-MU 0202 USB Sound does not work at 96KHz bandwidth

Yahoo group: kgksdr
Date: 2007-09-29 17:04:27 UTC
From: qrper723
Topic: 1049 Message: 1049

Hi fellows,

I bought the E-MU 0202 sound module last week to try to expand
the bandwidth of KGKSDR Transceiver.
But I can not set at 96KHz it can work at 48KHz only...
ASIO driver is working so it seems to be no problem.

Does anyone use E-MU 0202 properly at 96KHz bandwidth?
Any suggestions welcome.

ja9mat Hidehiko.

1050. Re: [kgksdr] E-MU 0202 USB Sound does not work at 96KHz bandwidth

Yahoo group: kgksdr
Date: 2007-09-30 11:01:38 UTC
From: Guido
Topic: 1049 Message: 1050
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1051. Re: E-MU 0202 USB Sound does not work at 96KHz bandwidth

Yahoo group: kgksdr
Date: 2007-09-30 12:03:51 UTC
From: qrper723
Topic: 1049 Message: 1051

Hi Guido,

Here 48KHz rate with E-MU 0202 is ok.
The CPU load is about 67% to 88%.
The only problem here is that can not select the 98KHz rate
with E-MU 0202. hi,
Maybe PC spec must be required, my laptop PC has only 1.7GHz
and 512M-RAM.

73, ja9mat Hidehiko.

> 100% CPU load when selecting 48kHz rate; is this maybe the cause?
>
> Guido
>
> On 9/29/07, qrper723 <qrper72@...> wrote:
> >
> >
> > Hi fellows,
> >
> > I bought the E-MU 0202 sound module last week to try to expand
> > the bandwidth of KGKSDR Transceiver.
> > But I can not set at 96KHz it can work at 48KHz only...
> > ASIO driver is working so it seems to be no problem.
> >
> > Does anyone use E-MU 0202 properly at 96KHz bandwidth?
> > Any suggestions welcome.
> >
> > ja9mat Hidehiko.
> >
> >
>

1052. Re: E-MU 0202 USB Sound does not work at 96KHz bandwidth

Yahoo group: kgksdr
Date: 2007-09-30 16:17:40 UTC
From: josephlevy
Topic: 1049 Message: 1052

HI
I have a X-FI (Creative) and a C-media MOBO sound cards on a 1.8 Ghz
pentium 4.

when trying to run the combo on 96 Ksmps it freezes the comp.
(way "over" 100% load) BUT if I make shure that ONLY one card that
can do 96 ksmps is enabled in the ASIO4ALL then it works at 96 Ksmps
just fine (at 90-98% which is too much...but it works!!)

YMMV but give it a try.

73 de Joe.
--- In kgksdr@yahoogroups.com, Guido <threeme3@...> wrote:
>
> Hello all/hidehiko,
>
> For some reason I also cannot set KGKSDR to 96kHz samplingrate for
any of my
> sound devices. I have installed a new KGKSDR and ASIO recently. I
also see a
> 100% CPU load when selecting 48kHz rate; is this maybe the cause?
>
> Guido
>
> On 9/29/07, qrper723 <qrper72@...> wrote:
> >
> >
> > Hi fellows,
> >
> > I bought the E-MU 0202 sound module last week to try to expand
> > the bandwidth of KGKSDR Transceiver.
> > But I can not set at 96KHz it can work at 48KHz only...
> > ASIO driver is working so it seems to be no problem.
> >
> > Does anyone use E-MU 0202 properly at 96KHz bandwidth?
> > Any suggestions welcome.
> >
> > ja9mat Hidehiko.
> >
> >
>

1053. Re: Creative SB Live 24 bit External and KGKSDR

Yahoo group: kgksdr
Date: 2007-09-30 18:50:46 UTC
From: pa0rbc
Topic: 1027 Message: 1053

Dear Duncan and Robby,

I did your adjustments of Hardware and Hardware 2 tab as you
described.
Everything run's now.
Also the Comport (between CTS and RTS) for the CW straight key
Did have the same trouble as Robby.
Also VE3NEA BPSK transceiversoftware run on this hardwareconnections
and a bit similar soundcardsettings.
I'm using an Olidata notebook with AC97 audiocard and the SB live
24bits USB external soundcard as Robby.
I'm not using the Softrockboard but the designs of YU1LM.
Did build the transceiver on one board and the separate receiver and
transmitterboards as described on YU1LM his website.
Funny, also the Vector Network Analyzer run well now on the YU1LM
transceiverboard.
I'm using an USB-Serialcomport converter.
Now I must start building an enclosure (Brrr...)
You did write nice SDR software Duncan!
'73, Roeland, PA0RBC.

-- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> R. R. Robson wrote:
> >
> >> There is probably some recommended sequence of actions/commands
to
> >> go through before I start up KGKSDR.
> >
> > OK. I uninstalled KGK. I deleted the entire Duncan Admin folder
> > under my account. I rebooted. I reinstalled KGK taking all the
> > same defaults. I started up KGK.
> >
> > I went into Transceiver Options.
> > At this point I am at a loss of exactly what I should do. My
desire
> > is to be able to process RX and TX using the Creative SB Live 24
> > woth the maximum bandwidth possible. I would like to be able to
> > hear the output on the internal speakers, which suggests I need
to
> > get the AC97 board into the mix.
> >
> > I have WIN XP SP2 on my Toshiba laptop and I have installed the
> > ASIO4ALL drivers.
> >

> > 1. I would very much appreciate some step-by-step instructions
> > (other than what is in the help, which I simply could not relate
to
> > the above case) on precisely how to set up my computer/KGK to do
> > what I need above. I have a big-time mental block.
>
> OK, some recommended settings base on what I know from you are as
follows:
>
> [Hardware tab]
>
> Driver: ASIO4ALL
> RX IQ Input: Soundblaster
> Speaker Out: AC97
> Mic Input: AC97
> TX IQ Output: Soundblaster
> Samplerate: 48K
> RX Sampling: Set to 'Delay right by 1 sample' if the display looks
all wrong
>
> [Hardware 2 tab]
>
> Single card: unchecked
>
> This should get you going.
>
> > 2. If it turns out that the necessary actions/steps lead to my
> > disabling my onboard sound card, I would also appreciate anyone's
> > explaining to me what I would need to do to put my computer's
sound
> > board back into the mix for those times when I am NOT running KGK
> > (e.g., hearing sounds while browsing the internet, etc.)
>
> You should not have to disable the onboard sound, it's possible to
> remove it from ASIO4ALL (or at least disable it anyway).
>
> > 3. When I finish setting options and click OK to leave the
options
> > dialogue, nothing appears to be happening - no spectrun display,
no
> > sound, no nothing Thes is ome moderate CPU activity on the
order
> > of 7%, some occasional popping/crackling, but nothing else. The
> > other programs I have used (Winrad, Rocky) immediately
> > start "receiving" regardless of whether there is any input on the
> > soundcard. Should I expect this in KGK? Or is it somehow able
to
> > know when the soundcard is getting IQ signals in from the
hardware
> > RX and, only then, displaying the spectrum I would expect to see?

>
> If you check the entries are as above, you should be getting
something
> out. Make sure your softrock is not going into TX automatically -
is
> the bar at the bottom of the screen in red?
>
>
> 73,
>
> Duncan
> M0KGK
>

1054. Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2007-10-05 19:27:26 UTC
From: Dave
Topic: 1016 Message: 1054

> I haven't yet been able to get ASIO4ALL to
> provide the 96K sampling choice that this interface is supposed to
> support, but I think I'll give that some more effort. I may try
> KGKSDR 1.0 since I think that uses WDM instead of ASIO.

I finally did some more experimentation with this. I found no way to get ASIO4ALL to operate my Dell's built in sound interface at 96K despite the hardware actually supporting it. I think it may have something to do with ASIO4ALL's support of the SigmaTel HDA audio. I loaded KGKSDR 1.0 so that I could compare using using WDM instead of ASIO and I was able to operate at 96K.

I still see a significant offset between the left and right channels. Interestingly, with no per-sample delay configured, WDM the delay seems to be about -0.187*f or 5.2uS at both 48K and 96K. However, using ASIO4ALL (again with no per-sample delay) at 48K I see -0.0049*f or 13.6uS. It would be nice if I could configure KGKSDR with a fixed time offset, something that goes beyond the capability of the per-sample delay.

With KGKSDR 1.0 I can see it do some auto-adjustment before and after manual calibration, but I don't think I see any with KGKSDR 1.1.

As for ASIO4ALL not seeing the sound device as supporting 96K, I guess that's a question for the ASIO4ALL forum, as may be a question about the channel-offset difference between WDM and ASIO4ALL.

So far, of KGKSDR (with or without ASIO4ALL), Rocky and PowerSDR, KGKSDR is the only software the recognizes my sound device under Windows Vista. KGKSDR does produce what looks like a null-pointer violation notification at shutdown, though. Rocky has a similar, but more severe problem at shutdown and has to be killed using Task Manager.

Dave, WA3OFF

1055. Re: [kgksdr] Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2007-10-05 20:01:34 UTC
From: Duncan Munro
Topic: 1016 Message: 1055

Dave wrote:
>> I haven't yet been able to get ASIO4ALL to
>> provide the 96K sampling choice that this interface is supposed to
>> support, but I think I'll give that some more effort. I may try
>> KGKSDR 1.0 since I think that uses WDM instead of ASIO.
>
> I finally did some more experimentation with this. I found no way to
> get ASIO4ALL to operate my Dell's built in sound interface at 96K
> despite the hardware actually supporting it. I think it may have
> something to do with ASIO4ALL's support of the SigmaTel HDA audio.
> I loaded KGKSDR 1.0 so that I could compare using using WDM instead
> of ASIO and I was able to operate at 96K.
>
> I still see a significant offset between the left and right channels.
> Interestingly, with no per-sample delay configured, WDM the delay
> seems to be about -0.187*f or 5.2uS at both 48K and 96K. However,
> using ASIO4ALL (again with no per-sample delay) at 48K I see
> -0.0049*f or 13.6uS. It would be nice if I could configure KGKSDR
> with a fixed time offset, something that goes beyond the capability
> of the per-sample delay.
>
> With KGKSDR 1.0 I can see it do some auto-adjustment before and after
> manual calibration, but I don't think I see any with KGKSDR 1.1.
>
> As for ASIO4ALL not seeing the sound device as supporting 96K, I
> guess that's a question for the ASIO4ALL forum, as may be a question
> about the channel-offset difference between WDM and ASIO4ALL.
>
> So far, of KGKSDR (with or without ASIO4ALL), Rocky and PowerSDR,
> KGKSDR is the only software the recognizes my sound device under
> Windows Vista. KGKSDR does produce what looks like a null-pointer
> violation notification at shutdown, though. Rocky has a similar, but
> more severe problem at shutdown and has to be killed using Task
> Manager.

Hi Dave, thanks for all the info.

The ASIO4ALL seemed like a good idea at the outset but it seems to be causing a whole load of trouble. There is also the fatal flaw in that if you have a device that can only sample 48k, then nothing else in the list will be able to sample any more than that.

73,

Duncan
M0KGK

1056. M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-06 03:18:54 UTC
From: Bill Dumke
Topic: 1056 Message: 1056

I am trying to use M0KGK with a Delta 44 Sound Card and a Rocky Serial Interface in the SSB mode. The Delta 44 is setup as a single sound card.

Running SoftRock RXTX v.6.2 40m/30m.

When I click the MOX button with an unbalanced microphone plugged into the Microphone input on the Delta 44 interface card, I hear a very load rushing noise in the speakers, the S-meter does move well with the voice, but there is no RF output from the RXTX. When I connect the microphone across the two Delta 44 interface microphone input balanced in a trial balanced configuration. The S-meter no longer moves with the voice on the mic, and there is still no RF output and the loud rushing noise is still there with MOX depressed.

I am confused. Can anybody help me get this working?

Bill wa9pwr

1057. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-06 04:41:20 UTC
From: Duncan Munro
Topic: 1056 Message: 1057

Bill Dumke wrote:
> I am trying to use M0KGK with a Delta 44 Sound Card and a Rocky Serial
> Interface in the SSB mode. The Delta 44 is setup as a single sound card.
>
> Running SoftRock RXTX v.6.2 40m/30m.
>
> When I click the MOX button with an unbalanced microphone plugged into
> the Microphone input on the Delta 44 interface card, I hear a very load
> rushing noise in the speakers, the S-meter does move well with the
> voice, but there is no RF output from the RXTX. When I connect the
> microphone across the two Delta 44 interface microphone input balanced
> in a trial balanced configuration. The S-meter no longer moves with the
> voice on the mic, and there is still no RF output and the loud rushing
> noise is still there with MOX depressed.

Hi Bill, the basic issue here is that the Delta 44 does not have any mic inputs in the same way as a soundblaster card etc.

If you want to use a microphone with them and get any RF output at all, you will need some sort of preamplifier as the D44 is expecting line level signals.

73,

Duncan
M0KGK

1058. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-06 04:52:13 UTC
From: Bill Dumke
Topic: 1056 Message: 1058

Duncan,

But then why do I get a loud rushing noise when I click the MOX???? It should be muted. The microphone I was using was kicking up the S-meter most of the way when I plugged it in unbalanced. And I get plenty of RF power out of the RXTX when in the tune position.

Are there special settings that must be used for the Delta 44 to get a balanced microphone to work?

Bill wa9pwr

Duncan Munro wrote:
> Bill Dumke wrote:
>
>> I am trying to use M0KGK with a Delta 44 Sound Card and a Rocky Serial
>> Interface in the SSB mode. The Delta 44 is setup as a single sound card.
>>
>> Running SoftRock RXTX v.6.2 40m/30m.
>>
>> When I click the MOX button with an unbalanced microphone plugged into
>> the Microphone input on the Delta 44 interface card, I hear a very load
>> rushing noise in the speakers, the S-meter does move well with the
>> voice, but there is no RF output from the RXTX. When I connect the
>> microphone across the two Delta 44 interface microphone input balanced
>> in a trial balanced configuration. The S-meter no longer moves with the
>> voice on the mic, and there is still no RF output and the loud rushing
>> noise is still there with MOX depressed.
>>
>
> Hi Bill, the basic issue here is that the Delta 44 does not have any mic
> inputs in the same way as a soundblaster card etc.
>
> If you want to use a microphone with them and get any RF output at all,
> you will need some sort of preamplifier as the D44 is expecting line
> level signals.
>
> 73,
>
> Duncan
> M0KGK
>
>

1059. TX image calibration

Yahoo group: kgksdr
Date: 2007-10-07 07:06:27 UTC
From: jr6muf_2007
Topic: 1059 Message: 1059

Hello Duncan san
I am Hiro,JR6MUF.

Mr. Duncan san,Thank you for releasing such a good
software.

I want to ask about the best results of TX image supression to
Mr. Duncan san and everyone.

When I calibrate,I use the transceiver and make a effort to
minimyze the image level.
(I tried to use the spectrum analyzer with RF sampler,
but once failed,and did not try again.)

I use tune of KGKSDR 1.1 ,and decrese the power,and
adjust the S-meter as 40dB,and I move to the frequency
I prospect to get the image signal.
And I slide the phase and amplitude control,and
get the minimum value.
Usually I could decrease the level of the image to S6,
so I estimated the image supression was around 58dB.

But when I use KGKSDR 1.0 as monitor,and transmit the SSB,
the image supression was 42dB like that.

My test is not enough to mention above,but
I want to konow evryone's average value of the TX supression.

Of course It depends on the hardware we use and the sound card we use.

I use the sound card Creative sound blaster audigy platinum,
and home-made SDR TRX.(phase reverse OPA2134PAx2 and
multiplexer IC MAX4052CPE,and buffer amp and linear amp is same as
RXTX ver 6.1.

Anuhow TX image supression is required more than 40dB?

I am sorry ,but I hope any suggestion for me.

Regards.

Hiro/JR6MUF

1060. High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-07 07:34:30 UTC
From: jr6muf_2007
Topic: 1060 Message: 1060

Helo again Duncan san.

I am terible sorry to ask, but when I measured the
tansmitting audio bandwidth ,I did not get the audio
below around 300Hz when measured by FFT analyzer.
I think KGKSDR 1.1 newest version has the digital HPF ,
when transmitting.Is it right?

Duncan san,maybe you have the some reason to cut off the
low audio frequency,don't you?
If you do not have the difficulty to extend the audio range,
I hope to do it.HI.
Is it possible 200Hz or 150Hz?
Of course you are busy,so It is only my hope,
Please don't take me wrong.
I am satisfied with the performance.
and I do not control PowerSDR sr40,so
I hope the another Build.HI

By the way ,I use gate of KGKSDR and not use clip.
and I use heil sounds dynamic microphone,and
home-built limiting amplifier.
I use the noise gate of my limiting amp too,
and I avoid the SSB trouble some guys struggling.HI.
Dynamic mic response is not so good,so we have to raise up volume,
and that cause the proble,I think.

Thanks for reading it.
Thanks Dancun san

Hiro/JR6MUF

1061. Re: TX image calibration

Yahoo group: kgksdr
Date: 2007-10-07 07:50:29 UTC
From: jr6muf_2007
Topic: 1059 Message: 1061

--- In kgksdr@yahoogroups.com, "jr6muf_2007" <jr6muf@...> wrote:
>
> Hello Duncan san
> I am Hiro,JR6MUF.
>
> Mr. Duncan san,Thank you for releasing such a good
> software.
>
> I want to ask about the best results of TX image supression to
> Mr. Duncan san and everyone.
>
> When I calibrate,I use the transceiver and make a effort to
> minimyze the image level.
> (I tried to use the spectrum analyzer with RF sampler,
> but once failed,and did not try again.)
>
> I use tune of KGKSDR 1.1 ,and decrese the power,and
> adjust the S-meter as 40dB,and I move to the frequency
> I prospect to get the image signal.
> And I slide the phase and amplitude control,and
> get the minimum value.
> Usually I could decrease the level of the image to S6,
> so I estimated the image supression was around 58dB.
>
> But when I use KGKSDR 1.0 as monitor,and transmit the SSB,
> the image supression was 42dB like that.
>
> My test is not enough to mention above,but
> I want to konow evryone's average value of the TX supression.
>
> Of course It depends on the hardware we use and the sound card we
use.
>
> I use the sound card Creative sound blaster audigy platinum,
> and home-made SDR TRX.(phase reverse OPA2134PAx2 and
> multiplexer IC MAX4052CPE,and buffer amp and linear amp is same as
> RXTX ver 6.1.
>
> Anuhow TX image supression is required more than 40dB?
>
> I am sorry ,but I hope any suggestion for me.
>
> Regards.
>
> Hiro/JR6MUF

>
sorry mistaken

I estimated the TX supression value as 52dB(40 plus 3dBx4)

Hiro?JR6MUF

1062. Re: TX image calibration

Yahoo group: kgksdr
Date: 2007-10-07 09:31:44 UTC
From: jr6muf_2007
Topic: 1059 Message: 1062

Hi all

Spotly I could calibrate about 60dB.by measuring the selective level meter.

When I put into -10dBm,TX image level is -70dBm(after phase and amplitude calibration).
so one frequency's TX image supression is 60dB?right?
Maybe I have to do it at many spots.
How many are required?
My another question.

Regards

Hiro/JR6MUF

1063. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-07 17:05:17 UTC
From: Duncan Munro
Topic: 1056 Message: 1063

Bill Dumke wrote:
> Duncan,
>
> But then why do I get a loud rushing noise when I click the MOX???? It
> should be muted.

What monitor setting are you using?

> The microphone I was using was kicking up the S-meter
> most of the way when I plugged it in unbalanced. And I get plenty of RF
> power out of the RXTX when in the tune position.
>
> Are there special settings that must be used for the Delta 44 to get a
> balanced microphone to work?

The Delta 44 does not have any mic inputs, balanced or unbalanced so you
would need a preamp of some sort which gives a single ended line output.

73,

Duncan
M0KGK

1064. Re: [kgksdr] High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-07 17:11:30 UTC
From: Duncan Munro
Topic: 1060 Message: 1064

jr6muf_2007 wrote:
> Helo again Duncan san.
>
> I am terible sorry to ask, but when I measured the
> tansmitting audio bandwidth ,I did not get the audio
> below around 300Hz when measured by FFT analyzer.
> I think KGKSDR 1.1 newest version has the digital HPF ,
> when transmitting.Is it right?

This is correct, there is a LPF for SSB at 300Hz.

> Duncan san,maybe you have the some reason to cut off the
> low audio frequency,don't you?
> If you do not have the difficulty to extend the audio range,
> I hope to do it.HI.
> Is it possible 200Hz or 150Hz?

I can do this on the next build, shouldn't be a problem but just curious why you want to cut off lower!

On the other question, it's not a good idea to try and monitor the IQ with another KGKSDR as the transmitted IQ signal will be deliberately wrong to cancel errors of balance in the transmit mixer. The best way is to use another RX and listen to the image.

I can get down to only just audible (<< S1) on a nearby RX to the point where moving your hand near the Softrock board will start bringing the signal back due to the stray sub-pf capacitance unbalancing the mixer.

73,

Duncan
M0KGK

1065. Re: [kgksdr] Re: TX image calibration

Yahoo group: kgksdr
Date: 2007-10-07 17:14:36 UTC
From: Duncan Munro
Topic: 1059 Message: 1065

jr6muf_2007 wrote:
> Hi all
>
> Spotly I could calibrate about 60dB.by measuring the selective level
> meter.
>
> When I put into -10dBm,TX image level is -70dBm(after phase and
> amplitude calibration).
> so one frequency's TX image supression is 60dB?right?

60dB doesn't sound all that good, 80dB or higher should be achievable.
I need to look at the curve fitting on this as well as it should be
possible to calibrate single points to around 100dB if you are careful,
but it currently won't match this in real life when it starts to TX.

> Maybe I have to do it at many spots.
> How many are required?

Try for about 8 or 10. That should be enough.

73,

Duncan
M0KGK

1066. RX'd audio

Yahoo group: kgksdr
Date: 2007-10-07 18:36:57 UTC
From: g3zjo
Topic: 1066 Message: 1066

Hi Duncan
I must admit I have gone with Rocky initially and making contacts with my SDR TX/RX v6.1.

I would like to run KGKSDR and have it easily swap-able. Rocky will play received audio through my onboard sound card, is it possible to do this with KGKSDR.

I have a Delta44 sound card runnimg 96khz sampling RXing and TXing fine. The onboard AC97 audio is channelled via Line Out for RX and Side Tone.

Regards

Eddie G3ZJO

1067. Re: [kgksdr] RX'd audio

Yahoo group: kgksdr
Date: 2007-10-07 18:53:02 UTC
From: Duncan Munro
Topic: 1066 Message: 1067

g3zjo wrote:
> Hi Duncan
> I must admit I have gone with Rocky initially and making contacts with
> my SDR TX/RX v6.1.
>
> I would like to run KGKSDR and have it easily swap-able. Rocky will
> play received audio through my onboard sound card, is it possible to do
> this with KGKSDR.
>
> I have a Delta44 sound card runnimg 96khz sampling RXing and TXing
> fine. The onboard AC97 audio is channelled via Line Out for RX and Side
> Tone.

Hi Eddie, this will work (I do it myself) but with ASIO4ALL the lowest common denominator will be used. Everything will have to be set for 48kHz if you want to use the AC97 card.

73,

Duncan
M0KGK

1068. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-07 19:11:56 UTC
From: Bill Dumke
Topic: 1056 Message: 1068

What monitor Mixer settings in the Delta 44 Control Panel should I be using?

In fact it would be helpful to know what all the Delta 44 settings should be for M0KGK!

Also what should the Latency Samples be for M0KGK SSB? (256 works fine for Rocky.)

Here is what I have set up:

Monitor Mixer Tab:

Master Volume 0.0 0.0
Mixer Inputs All -144.0 dBm
Rest all blank
H/w Installed Checked #1 44

Patchbay / Router Tab:

H/W Out 1/2: H/W Out 3/4:
Checked WavOut 1/2 Checked WavOut 3/4
Unchecked Monitor Mixer
Unchecked H/W In 1/2 Unchecked H/W In 1/2
Unchecked H/W In 3/4 Unchecked H/W In 3/4

Hardware Settings Tab:

Checked Internal Xtal
Locked
Codec Sample Rate 96,000
Unchecked Rate Locked Unchecked Reset Rate When Idle

MultiTrack Driver Devices
Checked Single and InSync Unchecked Independent

DMA Buffer Size:
Latency 512 Samples
Unchecked Use Windows Default for MME

Variable Signal Settings:
Outputs:
Checked -10dBV
In1 through In4, All Checked -10

ASIO/EASI Options
Unchecked Disable audio app use of Monitor Mixer and Patchbay/Router

Input Channel Phase +180 degrees:
Unchecked In1
Unchecked In2
Unchecked In3
Unchecked In4

I tried a balanced input using a "Shure Professional Microphone Mixer" balanced output, but it did not work. The S-meter was either at the noise level or full scale. Using the scope it looks like it is putting out just AC hum. I am just borrowing it. I can build a single ended preamp and use a 600 Ohm isolation transformer on the output.

Bill wa9pwr

Duncan Munro wrote:
> Bill Dumke wrote:
>
>> Duncan,
>>
>> But then why do I get a loud rushing noise when I click the MOX???? It
>> should be muted.
>>
>
> What monitor setting are you using?
>
>
>> The microphone I was using was kicking up the S-meter
>> most of the way when I plugged it in unbalanced. And I get plenty of RF
>> power out of the RXTX when in the tune position.
>>
>> Are there special settings that must be used for the Delta 44 to get a
>> balanced microphone to work?
>>
>
> The Delta 44 does not have any mic inputs, balanced or unbalanced so you
> would need a preamp of some sort which gives a single ended line output.
>
> 73,
>
> Duncan
> M0KGK
>
>
>

1069. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-07 19:48:25 UTC
From: Duncan Munro
Topic: 1056 Message: 1069

Bill Dumke wrote:
> What monitor Mixer settings in the Delta 44 Control Panel should I be
> using?

Hi Bill, what I meant there was the TX monitor in KGKSDR. It's under Options -> Transceiver -> General -> CW Monitor style.

I know it says CW, but it's used for SSB too.

> In fact it would be helpful to know what all the Delta 44 settings
> should be for M0KGK!

I've uploaded some images of mine, it's a Delta 66 but with the exception of additional SPDIF capabilities, is identical to the Delta 44. The screen dumps are in the photo section under Delta 44/66 settings. http://ph.groups.yahoo.com/group/kgksdr/photos/browse/844a

> Also what should the Latency Samples be for M0KGK SSB? (256 works fine
> for Rocky.)

Rocky is a bit slicker than KGKSDR by the sound of things, so you might want to increase to 512 or higher depending on how quick your machine is.

> [snip]
> I tried a balanced input using a "Shure Professional Microphone Mixer"
> balanced output, but it did not work. The S-meter was either at the
> noise level or full scale. Using the scope it looks like it is putting
> out just AC hum. I am just borrowing it. I can build a single ended
> preamp and use a 600 Ohm isolation transformer on the output.

Balanced out won't work, simply because there is no balanced in on the Delta 44. If you plug into inputs 1/2 or 3/4 it will probably just add them together (I need to check the code but suspect that's what would happen). This will give you zero output.

If you want to avoid the preamp route, a dynamic mic with 50k output will *just* work. Not sure why you want to use a 600 ohm isoltation transformer on the output of your preamp though?

73,

Duncan
M0KGK

1070. Re: RX'd audio

Yahoo group: kgksdr
Date: 2007-10-07 20:00:04 UTC
From: g3zjo
Topic: 1066 Message: 1070

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> g3zjo wrote:
> > fine. The onboard AC97 audio is channelled via Line Out for RX and
Side
> > Tone.
>
> Hi Eddie, this will work (I do it myself) but with ASIO4ALL the
lowest
> common denominator will be used. Everything will have to be set for
> 48kHz if you want to use the AC97 card.
>
> 73,
>
> Duncan
> M0KGK

OK so the best way is to use a mono output from the Delta44 to Line In.
I tried it this way, it works fine but Rocky does it internally with no
lowest common denominator limitation.

1071. Re: [kgksdr] M0KGK in SSB trouble

Yahoo group: kgksdr
Date: 2007-10-07 20:04:05 UTC
From: Bill Dumke
Topic: 1056 Message: 1071

Thanks, Duncan.

That helps a lot.

Bill wa9pwr

Duncan Munro wrote:
> Bill Dumke wrote:
>
>> What monitor Mixer settings in the Delta 44 Control Panel should I be
>> using?
>>
>
> Hi Bill, what I meant there was the TX monitor in KGKSDR. It's under
> Options -> Transceiver -> General -> CW Monitor style.
>
> I know it says CW, but it's used for SSB too.
>
>
>> In fact it would be helpful to know what all the Delta 44 settings
>> should be for M0KGK!
>>
>
> I've uploaded some images of mine, it's a Delta 66 but with the
> exception of additional SPDIF capabilities, is identical to the Delta
> 44. The screen dumps are in the photo section under Delta 44/66
> settings. http://ph.groups.yahoo.com/group/kgksdr/photos/browse/844a
>
>
>> Also what should the Latency Samples be for M0KGK SSB? (256 works fine
>> for Rocky.)
>>
>
> Rocky is a bit slicker than KGKSDR by the sound of things, so you might
> want to increase to 512 or higher depending on how quick your machine is.
>
>
>> [snip]
>> I tried a balanced input using a "Shure Professional Microphone Mixer"
>> balanced output, but it did not work. The S-meter was either at the
>> noise level or full scale. Using the scope it looks like it is putting
>> out just AC hum. I am just borrowing it. I can build a single ended
>> preamp and use a 600 Ohm isolation transformer on the output.
>>
>
> Balanced out won't work, simply because there is no balanced in on the

> Delta 44. If you plug into inputs 1/2 or 3/4 it will probably just add
> them together (I need to check the code but suspect that's what would
> happen). This will give you zero output.
>
> If you want to avoid the preamp route, a dynamic mic with 50k output
> will *just* work. Not sure why you want to use a 600 ohm isoltation
> transformer on the output of your preamp though?
>
> 73,
>
> Duncan
> M0KGK
>
>

1072. Re: [kgksdr] High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-07 23:11:16 UTC
From: Tim Gorman
Topic: 1060 Message: 1072

On Sunday 07 October 2007 12:11, Duncan Munro wrote:

>
> > Duncan san,maybe you have the some reason to cut off the
> > low audio frequency,don't you?
> > If you do not have the difficulty to extend the audio range,
> > I hope to do it.HI.
> > Is it possible 200Hz or 150Hz?
>
> I can do this on the next build, shouldn't be a problem but just curious
> why you want to cut off lower!
>

I am doing research on speech intelligibility over amateur radio in the presence of noise and QRM. I have developed some wav file recordings using standard speech analysis word lists that I will be using in the future to gather statistical data. Right now I am modifying the wave files for different bandwidths and SNR's using Cool Edit, its filters, and its Gaussian noise generator. Upper frequency limits are as high as 3.6khz, which your software handles fine, and lower frequency limits are 150hz, which your software doesn't handle.

Having an ability to move the low frequency limit down to 150hz would be a big help to me since it would allow all of my testing to be done over the air using typical amateur station speakers instead of someones computer speakers or stereo system.

Thanks,

tim ab0wr

1073. Re: [kgksdr] High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-07 23:31:54 UTC
From: Duncan Munro
Topic: 1060 Message: 1073

Tim Gorman wrote:

> Having an ability to move the low frequency limit down to 150hz would be a big
> help to me since it would allow all of my testing to be done over the air
> using typical amateur station speakers instead of someones computer speakers
> or stereo system.

Thanks for the info Tim, from memory I think there's a top limit in
there of 2700 or 3000 Hz too.

I can look at this in the next build but that won't be until the w/e
20th Oct. If someone reminds me nearer the time, I'll add variable
LPF/HPF in for SSB along with the DRM stuff I keep promising to sort out....

73,

Duncan
M0KGK

1074. 48 kHz sampling

Yahoo group: kgksdr
Date: 2007-10-08 00:03:32 UTC
From: Bill Dumke
Topic: 1074 Message: 1074

Duncan,

What is the reason your Delta 44 was set up for only 48 kHz sampling?

Bill

1075. Re: TX image calibration

Yahoo group: kgksdr
Date: 2007-10-08 07:00:07 UTC
From: jr6muf_2007
Topic: 1059 Message: 1075

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jr6muf_2007 wrote:
> > Hi all
> >
> > Spotly I could calibrate about 60dB.by measuring the selective
level
> > meter.
> >
> > When I put into -10dBm,TX image level is -70dBm(after phase and
> > amplitude calibration).
> > so one frequency's TX image supression is 60dB?right?
>
> 60dB doesn't sound all that good, 80dB or higher should be
achievable.
> I need to look at the curve fitting on this as well as it should be
> possible to calibrate single points to around 100dB if you are
careful,
> but it currently won't match this in real life when it starts to TX.
>
> > Maybe I have to do it at many spots.
> > How many are required?
>
> Try for about 8 or 10. That should be enough.
>
> 73,
>
> Duncan
> M0KGK
>

Duncan san

Thank you so much for the reply.

> 60dB doesn't sound all that good, 80dB or higher should be
achievable.

I know for the first time it.
Maybe I missed the document which described before in yahoo group.
It sounds so nice.
Thanks for your help.

Hiro/JR6MUF

1076. Re: [kgksdr] 48 kHz sampling

Yahoo group: kgksdr
Date: 2007-10-08 07:06:55 UTC
From: Duncan Munro
Topic: 1074 Message: 1076

Bill Dumke wrote:
> Duncan,
>
> What is the reason your Delta 44 was set up for only 48 kHz sampling?

Because I'm using ASIO4ALL with the Delta 44 WDM drivers instead of the ASIO drivers supplied. This is because the AC97 was driving a speaker so I wanted to use that (hence ASIO4ALL being required).

When you use ASIO4ALL, the lowest common denominator sets the system speed, in this case the 48k of the AC97.

The ideal situation is use one of the D44 outputs to drive an amp/speaker in which case you can use 96k.

73,

Duncan
M0KGK

1077. Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-08 07:11:56 UTC
From: jr6muf_2007
Topic: 1060 Message: 1077

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jr6muf_2007 wrote:
> > Helo again Duncan san.
> >
> > I am terible sorry to ask, but when I measured the
> > tansmitting audio bandwidth ,I did not get the audio
> > below around 300Hz when measured by FFT analyzer.
> > I think KGKSDR 1.1 newest version has the digital HPF ,
> > when transmitting.Is it right?
>
> This is correct, there is a LPF for SSB at 300Hz.
>
> > Duncan san,maybe you have the some reason to cut off the
> > low audio frequency,don't you?
> > If you do not have the difficulty to extend the audio range,
> > I hope to do it.HI.
> > Is it possible 200Hz or 150Hz?
>
> I can do this on the next build, shouldn't be a problem but just
curious
> why you want to cut off lower!
>
> On the other question, it's not a good idea to try and monitor the
IQ
> with another KGKSDR as the transmitted IQ signal will be
deliberately
> wrong to cancel errors of balance in the transmit mixer. The best
way
> is to use another RX and listen to the image.
>
> I can get down to only just audible (<< S1) on a nearby RX to the
point
> where moving your hand near the Softrock board will start bringing
the
> signal back due to the stray sub-pf capacitance unbalancing the
mixer.
>
> 73,
>
> Duncan
> M0KGK
>

Hello again Dancan san
Thanks for the reply.
If you can remove the function of HPF,
It is okay for me.HI
Not necessarily another setting of HPF.
I thought that the software has to put on the some value.HI
I am sorry I don't understand the software.
Of course I can manage the low audio frequency with the analogue circuits.so it won't necessarily need the HPF.
Is it possible to remove the HPF?or is it so problematic technically?
Thank you very much,also I've read the coments of Mr.Tim and your reply.I didn't understand well.lol But I am looking forward to use the next build.

Best Regards

Hiro
JR6MUF

1078. Re: [kgksdr] Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-08 07:40:00 UTC
From: Duncan Munro
Topic: 1060 Message: 1078

jr6muf_2007 wrote:

> Hello again Dancan san
> Thanks for the reply.
> If you can remove the function of HPF,
> It is okay for me.HI
> Not necessarily another setting of HPF.
> I thought that the software has to put on the some value.HI
> I am sorry I don't understand the software.
> Of course I can manage the low audio frequency with the analogue
> circuits.so it won't necessarily need the HPF.
> Is it possible to remove the HPF?or is it so problematic technically?
> Thank you very much,also I've read the coments of Mr.Tim and your
> reply.I didn't understand well.lol But I am looking forward to use
> the next build.

Hi Hiro, no problem. I can do the HPF say from 20Hz to 400Hz in steps of 10Hz - would this do it?

I *cannot* take the HPF off altogether in case there is a DC offset on the soundcard. That would cause a carrier to be transmitted on SSB.

73,

Duncan
M0KGK

1079. Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-08 07:50:21 UTC
From: jr6muf_2007
Topic: 1060 Message: 1079

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> jr6muf_2007 wrote:
>
> > Hello again Dancan san
> > Thanks for the reply.
> > If you can remove the function of HPF,
> > It is okay for me.HI
> > Not necessarily another setting of HPF.
> > I thought that the software has to put on the some value.HI
> > I am sorry I don't understand the software.
> > Of course I can manage the low audio frequency with the analogue
> > circuits.so it won't necessarily need the HPF.
> > Is it possible to remove the HPF?or is it so problematic
technically?
> > Thank you very much,also I've read the coments of Mr.Tim and your
> > reply.I didn't understand well.lol But I am looking forward to
use
> > the next build.
>
> Hi Hiro, no problem. I can do the HPF say from 20Hz to 400Hz in
steps
> of 10Hz - would this do it?
>
> I *cannot* take the HPF off altogether in case there is a DC offset
on
> the soundcard. That would cause a carrier to be transmitted on SSB.
>
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan san.
It sounds nice.
We have a lot of time to wait.lol
It deserves to it.HI

73 and CUL

Hiro
JR6MUF

1080. Re: [kgksdr] Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-08 07:52:00 UTC
From: Tony Parks
Topic: 1060 Message: 1080

Hi Duncan,

The RXTXv6.1 and RXTXv6.2 transceivers have the line-out signals capacitor coupled to the audio buffers which gives hardware HPFs on each signals. The HPF break frequencies are about 159 Hz for the RXTXv6.1 with its 0.1 uF input capacitors and about 1.59 Hz for the RXTXv6.2 with its 10 uF input capacitors where input resistors are 10k in each case.

73,
Tony KB9YIG
----- Original Message -----
From: Duncan Munro
To: kgksdr@yahoogroups.com
Sent: Monday, October 08, 2007 3:40 AM
Subject: Re: [kgksdr] Re: High pass filter of KGKSDR 1.1 Build 61

jr6muf_2007 wrote:

> Hello again Dancan san
> Thanks for the reply.
> If you can remove the function of HPF,
> It is okay for me.HI
> Not necessarily another setting of HPF.
> I thought that the software has to put on the some value.HI
> I am sorry I don't understand the software.
> Of course I can manage the low audio frequency with the analogue
> circuits.so it won't necessarily need the HPF.
> Is it possible to remove the HPF?or is it so problematic technically?
> Thank you very much,also I've read the coments of Mr.Tim and your
> reply.I didn't understand well.lol But I am looking forward to use
> the next build.

Hi Hiro, no problem. I can do the HPF say from 20Hz to 400Hz in steps of 10Hz - would this do it?

I *cannot* take the HPF off altogether in case there is a DC offset on the soundcard. That would cause a carrier to be transmitted on SSB.

73,

Duncan
M0KGK

1081. Re: [kgksdr] Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-08 11:32:59 UTC
From: Jose A. Amador
Topic: 1060 Message: 1081

That is on the "hardware baseband", to state it some way.

What matters in this case, if you are not using a very low frequency carrier, is what arrives to the software modulator, that does the spectrum shifting. Usually, the hardware cutoff is irrelevant since the actual operating frequency is much higher, up to 20 kHz.

Having those software filters is a good measure to achieve "tight" signals, and with variable cuttoff points adds much versatility. Hope it is not abused. Setting "factory defaults" of 200 Hz and 3 kHz on the config files could be a good thing, which can be later tweaked by the most adventurous.

On the low frequency end, I believe you can go as low as the quadrature delays allow in the I/Q channel generation, 100 Hz could be fair enough.

On the high end, it could be OK to have something in the range from 2 to 4 kHz. specially for those wider data modes, on the assumption that the modulator itself can control its output spectrum, and adding a sharp cuttoff too near to the highest frequency could add some undesired delay distortion that could poison the digital signal before it reaches the antenna.

73,

Jose, CO2JA

Tony Parks wrote:

> Hi Duncan,
>
> The RXTXv6.1 and RXTXv6.2 transceivers have the line-out signals
> capacitor coupled to the audio buffers which gives hardware HPFs on each
> signals. The HPF break frequencies are about 159 Hz for the RXTXv6.1
> with its 0.1 uF input capacitors and about 1.59 Hz for the RXTXv6.2 with
> its 10 uF input capacitors where input resistors are 10k in each case.
>
> 73,
> Tony KB9YIG
>
> ----- Original Message -----
> *From:* Duncan Munro <mailto:m0kgk@...>
> *To:* kgksdr@yahoogroups.com <mailto:kgksdr@yahoogroups.com>
> *Sent:* Monday, October 08, 2007 3:40 AM
> *Subject:* Re: [kgksdr] Re: High pass filter of KGKSDR 1.1 Build 61

>
> jr6muf_2007 wrote:
>
> > Hello again Dancan san
> > Thanks for the reply.
> > If you can remove the function of HPF,
> > It is okay for me.HI
> > Not necessarily another setting of HPF.
> > I thought that the software has to put on the some value.HI
> > I am sorry I don't understand the software.
> > Of course I can manage the low audio frequency with the analogue
> > circuits.so it won't necessarily need the HPF.
> > Is it possible to remove the HPF?or is it so problematic technically?
> > Thank you very much,also I've read the coments of Mr.Tim and your
> > reply.I didn't understand well.lol But I am looking forward to use
> > the next build.
>
> Hi Hiro, no problem. I can do the HPF say from 20Hz to 400Hz in steps
> of 10Hz - would this do it?
>
> I *cannot* take the HPF off altogether in case there is a DC offset on
> the soundcard. That would cause a carrier to be transmitted on SSB.
>
> 73,
>
> Duncan
> M0KGK
>

Participe en Universidad 2008.
11 al 15 de febrero del 2008.
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.universidad2008.cu

1082. Troubleshooting Rx

Yahoo group: kgksdr
Date: 2007-10-09 07:07:40 UTC
From: Jean-Michel Hausseguy
Topic: 1082 Message: 1082

Hello ,
I'm a novice with the KGK SDR software .I try it and find it is useful than others .

But I have a problem with the manuel Rx calibration .All is working fine , the images are reduced ,but when I exit the manual calibration menu ,a windows window appears with the message :" Invalid Floating Point Operation " ???? What about that ?

If any body could help me it will very fine .
Configuration

Computer HP 2.9 Ghz , 1 go memory MDelta 44 sound card ,YU1LM sdr front end system and Analog Devices front end board .

Many thanks Duncan for your software

73 qro from tr8jh

Ne gardez plus qu'une seule adresse mail ! Copiez vos mails vers Yahoo! Mail

1083. Troubleshooting Rx

Yahoo group: kgksdr
Date: 2007-10-09 09:20:23 UTC
From: tr8hj
Topic: 1082 Message: 1083

Hello ,
In message 1082 I forget to tell that at the exit of the
manual calibration the datas are not saved .

73
J.michel
TR8JH

1084. Re: [kgksdr] Troubleshooting Rx

Yahoo group: kgksdr
Date: 2007-10-09 18:21:31 UTC
From: Duncan Munro
Topic: 1082 Message: 1084

Jean-Michel Hausseguy wrote:
> Hello ,
> I'm a novice with the KGK SDR software .I try it and find it is useful
> than others .
>
> But I have a problem with the manuel Rx calibration .All is working fine
> , the images are reduced ,but when I exit the manual calibration menu ,a
> windows window appears with
> the message :" Invalid Floating Point Operation " ???? What about that ?

Hi, you need to delete the calibration map as there is a problem with
it. There are instructions on how to do this under the menu Help ->
Troubleshooting... -> Troubleshoot RX problems -> Overflow error

Also, can you let me know what version of the software you are using
from Help -> About...

73,

Duncan
M0KGK

1085. Re: High pass filter of KGKSDR 1.1 Build 61

Yahoo group: kgksdr
Date: 2007-10-10 10:52:04 UTC
From: jr6muf_2007
Topic: 1060 Message: 1085

Hi Jose and Tony san,and I hope Duncan san check up my comment.HI

I don't have the intention to abuse the setting of HPF,of course.lol.
As Jose pinted out,I understood for example 9kHz I/Q signals' modulated
audio don't be influenced to the capacitor of the hardware.

When I use the filter method SSB generator,I use order-made 3kHz
crystal filter,and I set up the carrier frequency which has the
bandwidth 150Hz-3150Hz.
So I wanna set up the HPF of SDR TRX as like 150Hz or 120Hz like that.

But I other hand want to experiment,what happens when I set up HPF as
50Hz like that.
So I thought that Duncan san's suggestion is nice.

conclusion,I hope duncan san does as what he suggested.

Regards

Hiro
JR6MUF

1086. Re: Troubleshooting Rx

Yahoo group: kgksdr
Date: 2007-10-11 14:36:06 UTC
From: tr8hj
Topic: 1082 Message: 1086

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Jean-Michel Hausseguy wrote:
> > Hello ,
> > I'm a novice with the KGK SDR software .I try it and find it is
useful
> > than others .
> >
> > But I have a problem with the manuel Rx calibration .All is
working fine
> > , the images are reduced ,but when I exit the manual calibration
menu ,a
> > windows window appears with
> > the message :" Invalid Floating Point Operation " ???? What
about that ?
>
> Hi, you need to delete the calibration map as there is a problem
with
> it. There are instructions on how to do this under the menu Help -
>
> Troubleshooting... -> Troubleshoot RX problems -> Overflow error
>
> Also, can you let me know what version of the software you are
using
> from Help -> About...
>
> 73,
>
> Duncan
> M0KGK
>Hi, Duncan,
thanks to reply me.I did the job you talk about
the reset cal table many times but the problem
is not fixed .the version is 1.1.0.61 and I'm
running with XP pro SP2.
I' m looking to get one another computer ,install yr
program and look what happens .But here in the bush it's not easy
hi !!!!
Best regards
J.Michel

1087. Re: Troubleshooting Rx

Yahoo group: kgksdr
Date: 2007-10-13 13:23:03 UTC
From: Dave
Topic: 1082 Message: 1087

> thanks to reply me.I did the job you talk about
> the reset cal table many times but the problem
> is not fixed .

If you haven't already done so, you could try deleting the calibration file itself. If you view the calibration map, the specific filename will be shown at the bottom. See Help->Troubleshooting...->Troubleshoot Rx problems->Hangs on startup for instructions.

Dave, WA3OFF

1088. KGKSDR and WINPSK

Yahoo group: kgksdr
Date: 2007-10-18 15:47:16 UTC
From: dario_matteo
Topic: 1088 Message: 1088

Hello,

I read somewhere in the net that there is a possibility to connect
kgksdr with winpsk via a 'loop.dll'.
In my understanding, in order to do this, I need a modified version of
Winpsk that is able to talk to kgksdr via the above mentioned dll.
I'm unable to find a place where I can download it.
Can somebody help me ?

Thanks so much, Dario.

1089. Re: [kgksdr] KGKSDR and WINPSK

Yahoo group: kgksdr
Date: 2007-10-18 16:06:05 UTC
From: Duncan Munro
Topic: 1088 Message: 1089

dario_matteo wrote:
> Hello,
>
> I read somewhere in the net that there is a possibility to connect
> kgksdr with winpsk via a 'loop.dll'.
> In my understanding, in order to do this, I need a modified version of
> Winpsk that is able to talk to kgksdr via the above mentioned dll.
> I'm unable to find a place where I can download it.
> Can somebody help me ?
>
> Thanks so much, Dario.

Hi Dario,

The page written by HB9TLK which had all this on seems to have gone,
I'll do a bit of digging around...

73,

Duncan
M0KGK

1090. KGKSDR doesn't find MS HTML Help EXE in Vista

Yahoo group: kgksdr
Date: 2007-10-18 17:49:11 UTC
From: Dave
Topic: 1090 Message: 1090

It seems that KGKSDR isn't able to find the Help exe when running under Vista. Double-clicking kgksdr11.chm does open the help file using C:\Windows\hh.exe, same as on my XP machine where KGKSDR *is* able to ope the file.

Dave, WA3OFF

1091. problem - crash when KGK do start .

Yahoo group: kgksdr
Date: 2007-10-18 18:06:19 UTC
From: Sergey Kuzmin
Topic: 1091 Message: 1091

Hello to All

Strange ....
Installed latest version KGK and ...
got crash when KGK do start and my PC go to reboot - system error.
Rocky-PowerSDR- all well...
Duo Core , Win XP sp2, Realtek audio, 1 Gb RAM., ASIO 2.8 beta, VAC 4.8

Any idea please?

73
Serge
RV3APM

1092. Re: [kgksdr] KGKSDR doesn't find MS HTML Help EXE in Vista

Yahoo group: kgksdr
Date: 2007-10-18 19:42:11 UTC
From: Duncan Munro
Topic: 1090 Message: 1092

Dave wrote:
> It seems that KGKSDR isn't able to find the Help exe when running
> under Vista. Double-clicking kgksdr11.chm does open the help file
> using C:\Windows\hh.exe, same as on my XP machine where KGKSDR *is*
> able to ope the file.

Hi Dave, thanks for letting me know. I don't have Vista yet, the main machine here is XP Home SP2.

I'm looking at Vista 64 bit, just checking through what virtualisation options are available for it as I need to have Win 2000, Me, etc. on the machine to check back on older versions of software.

73,

Duncan
M0KGK

1093. Re: [kgksdr] problem - crash when KGK do start .

Yahoo group: kgksdr
Date: 2007-10-18 19:46:09 UTC
From: Duncan Munro
Topic: 1091 Message: 1093

Sergey Kuzmin wrote:
> Hello to All
>
> Strange ....
> Installed latest version KGK and ...
> got crash when KGK do start and my PC go to reboot - system error.
> Rocky-PowerSDR- all well...
> Duo Core , Win XP sp2, Realtek audio, 1 Gb RAM., ASIO 2.8 beta, VAC 4.8
>
> Any idea please?

Hi Serge, this sounds bad. KGKSDR should not cause a reboot as it doesn't operate at a low enough level, but it might be tipping something else up.

One thing you might want to check is the cal maps. You can go to:

Help menu
Troubleshooting...
Troubleshoot RX problems
Hangs on startup

Hope this helps.

73,

Duncan
M0KGK

1094. Re: problem - crash when KGK do start .

Yahoo group: kgksdr
Date: 2007-10-18 20:25:58 UTC
From: Sergey Kuzmin
Topic: 1091 Message: 1094

Hi Duncan

Thanks

I tried this ... deleted cal maps - no luck - again got reboot.

I installed only RX 1.01.33 KGK sofware and it work good .
Seems TX part ... probably conflict with virtual COM ports ...
i not long time ago installed Eltima VCOM...

73
Serge

>
> Sergey Kuzmin wrote:
> > Hello to All
> >
> > Strange ....
> > Installed latest version KGK and ...
> > got crash when KGK do start and my PC go to reboot - system
error.
> > Rocky-PowerSDR- all well...
> > Duo Core , Win XP sp2, Realtek audio, 1 Gb RAM., ASIO 2.8 beta,
VAC 4.8
> >
> > Any idea please?
>
> Hi Serge, this sounds bad. KGKSDR should not cause a reboot as it
> doesn't operate at a low enough level, but it might be tipping
something
> else up.
>
> One thing you might want to check is the cal maps. You can go to:
>
> Help menu
> Troubleshooting...
> Troubleshoot RX problems
> Hangs on startup
>
> Hope this helps.
>
> 73,
>
> Duncan
> M0KGK
>

1095. Re: [kgksdr] Re: problem - crash when KGK do start .

Yahoo group: kgksdr
Date: 2007-10-18 20:54:40 UTC
From: Duncan Munro
Topic: 1091 Message: 1095

Sergey Kuzmin wrote:
> Hi Duncan
>
>
> Thanks
>
> I tried this ... deleted cal maps - no luck - again got reboot.
>
> I installed only RX 1.01.33 KGK sofware and it work good .
> Seems TX part ... probably conflict with virtual COM ports ...
> i not long time ago installed Eltima VCOM...

Hi Serge, is it possible to de-install to check?

73,

Duncan
M0KGK

1096. Re: problem - crash when KGK do start . FIXED

Yahoo group: kgksdr
Date: 2007-10-19 00:26:10 UTC
From: Sergey Kuzmin
Topic: 1091 Message: 1096

Hi Duncan

Fixed it .

The problem was in conflict with Bluethooth USB +IVT software -
Bluesoliel
Deinstalled and now all well.

THANKS FOR READY TO HELP
73
Serge

> Sergey Kuzmin wrote:
> > Hi Duncan
> >
> >
> > Thanks
> >
> > I tried this ... deleted cal maps - no luck - again got reboot.
> >
> > I installed only RX 1.01.33 KGK sofware and it work good .
> > Seems TX part ... probably conflict with virtual COM ports ...
> > i not long time ago installed Eltima VCOM...
>
> Hi Serge, is it possible to de-install to check?
>
> 73,
>
> Duncan
> M0KGK
>

1097. Re: KGKSDR doesn't find MS HTML Help EXE in Vista

Yahoo group: kgksdr
Date: 2007-10-20 02:58:46 UTC
From: jr_dakota
Topic: 1090 Message: 1097

Microsoft changed the format of the help files for Vista .... What you need to do is go to the Microsoft site knowledge base and they have a file you can download to make .chm files readable in Vista ... sorry but I don't have a URL it was several months ago that I installed it

JR

--- In kgksdr@yahoogroups.com, "Dave" <dmertz@...> wrote:
>
> It seems that KGKSDR isn't able to find the Help exe when running
> under Vista. Double-clicking kgksdr11.chm does open the help file
> using C:\Windows\hh.exe, same as on my XP machine where KGKSDR *is*
> able to ope the file.
>
> Dave, WA3OFF
>

1098. Re: KGKSDR doesn't find MS HTML Help EXE in Vista

Yahoo group: kgksdr
Date: 2007-10-22 16:23:47 UTC
From: Dave
Topic: 1090 Message: 1098

```
--- In kgksdr@yahoogroups.com, "jr_dakota" <SG2112@...> wrote:
>
> Microsoft changed the format of the help files for Vista .... What you
> need to do is go to the Microsoft site knowledge base and they have a
> file you can download to make .chm files readable in Vista ...
```

Are you thinking of .hlp files? Vista no longer includes support for .hlp files but the MS KB has a download to add it. Vista *will* read .chm files, it's just that KGKSDR doesn't seem to be able to start the help app.

Dave, WA3OFF

1099. Re: [kgksdr] Re: KGKSDR doesn't find MS HTML Help EXE in Vista

Yahoo group: kgksdr
Date: 2007-10-22 16:29:21 UTC
From: Duncan Munro
Topic: 1090 Message: 1099

Dave wrote:
> --- In kgksdr@yahoogroups.com, "jr_dakota" <SG2112@...> wrote:
>> Microsoft changed the format of the help files for Vista .... What you
>> need to do is go to the Microsoft site knowledge base and they have a
>> file you can download to make .chm files readable in Vista ...
>
> Are you thinking of .hlp files? Vista no longer includes support for
> .hlp files but the MS KB has a download to add it. Vista *will* read
> .chm files, it's just that KGKSDR doesn't seem to be able to start the
> help app.

Dave, I did some digging around on this and the 32 bit .hlp are not
supported on Vista. Oddly, the older 16 bit .hlp files are supported
which doesn't make sense.

The .chm files, as you say, should be fine so I need to get hold of
Vista and find out what is happening here.

73,

Duncan
M0KGK

1100. Reduced Bandwidth Voice Transmission

Yahoo group: kgksdr
Date: 2007-10-23 20:37:46 UTC
From: oz1bxn
Topic: 1100 Message: 1100

I fell over an interesting article in QEX nov/dec 2005
Here Sam w0oaj describes a proposal for reduced bandwith SSB
transmission, using Analog electronics with the Weaver method.
The advantages is an SSB transmission only 1.2 Khz wide but caring the
full 2.4KHz information
Unfortunately this proposal suggest using two transmitters , two
receivers and 2 diffrent antenna polarization making this analog
system very cumbersome.

Have anyone read the about article and would it be possible to do
digital? Or is this way of thinking obsolete and we should
concentrate on some digital emission that can carry a full ssb
voiceband at 1.2KHz bandwidth?

vy73 de oz1bxn chris

1101. New YU1LM SDR designs and very sucessful operation with Duncan's software

Yahoo group: kgksdr
Date: 2007-10-25 08:41:27 UTC
From: Sinisa Tasic YU1LM/QRP
Topic: 1100 Message: 1101

Hello KGKSDR groups,

I publish several new SDR designs including transceivers and receivers to 100 MHz . Designs are from the end of 2006 and beginning 2007. I had a lot personal and family problems and I was frustrated also with fact that some site visitors use my designs for private business without any obligations or fee. I was in big dilemma to keep on or to stop publishing. In this moment my decision is to keep on because the great numbers of visitors my site started my designs and I like to help them in both side pleasure.
I totally reorganized my site and navigations. I made near 400 QSO with Duncan's software and opeartion was very good and easy.I took part in contest and it was special pleasure and discovery for me the new way after many years and contests.Thank you Duncan for hard ,nice work and sharing your work with SDR folks.

1.SDR HF I/Q S/H receivers DR2A+ and DR2A++ has now DR (dynamic range) IMD3 free close to the 100dB with SMD substitute Philips IC 74LVC4066. DR2A+ and DR2A++ are going from 30 kHz to the 52 MHz without input filters!!
2. SDR HF receiver DR2G. DR2G is my first completely SMT SDR receiver. The SDR RX DR2G goes from 30 kHz to the 70(100)MHz without input filters!!!!
3. ADTRX-2 is new version of my low power SDR transceivers ADTRX1 and ADTRX1-1. The new mono-band QRP SDR HF transceiver AVALA-01 is ADTRX-2 transceiver with added QRP power amplifier and built in band oscillator all on one single side PCB board. Transceiver is optimized for unique PC control in all software.
4. Low power SDR HF I/Q S/H (Sample and Hold) transceiver based on use 74HC4053- ADTRX1 goes from 30 kHz-35 MHz with new boards B3 and B4. Transmission is possible at 3 bands harmonically related. The boards have built in 4 channel crystal oscillator with QRP 5Wout power amplifier with LP/BP- part3
5. I translate original articles about DC (direct conversion) receivers from Serbian language to the English and I added some photos of realizations.
6. Article with classification all YU1LM/QRP SDR designs
7. This design is good and small active antenna built by Reolof Bakker PA0RDT & Aldo Moroni. Every my SDR RX can now receive weak signals in HF range without big antennas.
8. New SDR photo gallery + links related to my design

VY 73/72 GL in homebrew and SDR designs
Tasa YU1LM/QRP

www.yu1lm.qrpradio.com
tasa@... new address

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.8/1089 - Release Date: 23.10.2007 19:39

1102. Problems

Yahoo group: kgksdr
Date: 2007-10-27 18:44:19 UTC
From: g3zjo
Topic: 1102 Message: 1102

Hi Duncan
I am trying KGKSDR11 again. I have a Rocky running TX/RX fine on my 2.66Ghz PC with 1GHz of memory, O/S XP, Delta44 Soundcard AC97 for speaker audio. Flexradio is good SSB audio quality on RX.

I have a couple of problems.
1) The RX audio on SSB is harsh almost gargled normally. Oddly today it was not.

I therefore went ahead and set TX IQ balance. CW TX is fine I added a microphone inputted to the Delta 44 (it will need a pre amp) and got low power clean SSB TX.

2) The program was running for some time, CPU usage normally 69% went up to 100%, then the display froze, losing blocks or no S meter movement etc.

Could this be memory leakage? Restarting the program it came back with display problems.
Restarting the computer all was well with the display but the SSB RX audio is back to gargled.

Eddie

1103. Re: [kgksdr] Problems

Yahoo group: kgksdr
Date: 2007-10-27 23:32:04 UTC
From: Bill Dumke
Topic: 1102 Message: 1103

Eddie,

Try upping the DMA Transfer Size Latency Samples in the Delta 44 Hardware Settings Tab. There may be too many processes running in the background (most likely the case) or your PC speed, etc., may be inadequate.

Bill wa9pwr

g3zjo wrote:
> Hi Duncan
> I am trying KGKSDR11 again. I have a Rocky running TX/RX fine on my
> 2.66Ghz PC with 1GHz of memory, O/S XP, Delta44 Soundcard AC97 for
> speaker audio. Flexradio is good SSB audio quality on RX.
>
> I have a couple of problems.
> 1) The RX audio on SSB is harsh almost gargled normally. Oddly today
> it was not.
>
> I therefore went ahead and set TX IQ balance. CW TX is fine I added a
> microphone inputted to the Delta 44 (it will need a pre amp) and got
> low power clean SSB TX.
>
> 2) The program was running for some time, CPU usage normally 69% went
> up to 100%, then the display froze, losing blocks or no S meter
> movement etc.
>
> Could this be memory leakage? Restarting the program it came back
> with display problems.
> Restarting the computer all was well with the display but the SSB RX
> audio is back to gargled.
>
> Eddie
>
>
>
>

1104. Re: Problems

Yahoo group: kgksdr
Date: 2007-10-28 10:15:31 UTC
From: g3zjo
Topic: 1102 Message: 1104

--- In kgksdr@yahoogroups.com, Bill Dumke <billd@...> wrote:
>
> Eddie,
>
> Try upping the DMA Transfer Size Latency Samples in the Delta 44
> Hardware Settings Tab. There may be too many processes running in
the
> background (most likely the case) or your PC speed, etc., may be
> inadequate.
>
> Bill wa9pwr
>
Thanks for that Bill.
1024 gets rid of the garbling a treat, it seems quite critical as
KGKSDR does not work at all with some of the odd values.
I had not seen it mentioned before, despite searching for distorted
audio etc.

I haven't spent a lot of time with KGKSDR but I would like to grow to
love it as much as Rocky :-)
I have it running now to make sure we do not get some time related
display problems like yesterday.

I have nothing running in the background, zero processor use. I must
admit to using the onboard video card though. I may fit a video card
with a good wadge of graphics memory soon.

1105. Re: Problems

Yahoo group: kgksdr
Date: 2007-10-29 16:16:51 UTC
From: g3zjo
Topic: 1102 Message: 1105

--- In kgksdr@yahoogroups.com, "g3zjo" <g3zjo@...> wrote:
>
> --- In kgksdr@yahoogroups.com, Bill Dumke <billd@> wrote:
> >
> > Eddie,
> >
> > Try upping the DMA Transfer Size Latency Samples in the Delta 44
> > Hardware Settings Tab.

>g3zjo replied
> I have it running now to make sure we do not get some time related
> display problems like yesterday.
>

All fine now, I am glad I had another try with the software. I have it set up for the 'feel' I like now. No distortion on SSB, stable operation.
Microphone pre amp built and an SSB test across town today.

Eddie

1106. KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-29 21:46:25 UTC
From: Jose Bonanca
Topic: 1106 Message: 1106
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

1107. Re: KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-29 23:01:35 UTC
From: g3zjo
Topic: 1106 Message: 1107

--- In kgksdr@yahoogroups.com, "Jose Bonanca" <jbct1aos@...> wrote:
>
> HI Duncan.
>
>
> Just spoke with you Father.
> I have a freezing window saying initialization complete and then
the PC
> freezes.
> In other programs we can delete the .ini file and solve this
problem by
> reconfiguration... But here I can't see how to do it.
> Any suggestion.
> Thanks in advance.
>
>
> --
> Jose Bonanca (CT1aos)
>
Hi Jose

Got you in this group now. See the 4 messages above. I hope it works
for you as it did me.

Eddie

1108. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-29 23:45:25 UTC
From: Duncan Munro
Topic: 1106 Message: 1108

Jose Bonanca wrote:
> HI Duncan.
>
>
> Just spoke with you Father.
> I have a freezing window saying initialization complete and then the PC
> freezes.
> In other programs we can delete the .ini file and solve this problem by
> reconfiguration... But here I can't see how to do it.
> Any suggestion.
> Thanks in advance.

Hi Jose, this is normally the calibration maps that need to be deleted.
You need to go to the following folder:

C:\Documents and Settings\<my name>\Application Data\Duncan
Amplification\KGKSDR

Delete that folder. Some parts of the folder name might be called
different things in Portuguese, so you might want to do a search for
folder named KGKSDR and that will put you in the right place.

Normally, deleting this folder will solve all problems - please let us
know how you get on.

73,

Duncan
M0KGK

1109. Re: KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 08:18:30 UTC
From: g3zjo
Topic: 1106 Message: 1109

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> Normally, deleting this folder will solve all problems - please let
us
> know how you get on.
>

Once we have manually calibrated with many calibration points and all
is well, would it be wise/possible to make a back up copy of the files
and store them in a folder ready for any mishaps.

In the event of a problem we could delete as described and replace with
our stored version.

Eddie

1110. Computer Hangs

Yahoo group: kgksdr
Date: 2007-10-30 09:02:23 UTC
From: g3zjo
Topic: 1110 Message: 1110

Hi Jose

I will reply on this forum only now.
You wrote:-

>I am using AN SB audigy 4...So I cannot rise the latency as the
>program doesn't allow me to.
>The computer hangs, blocks because KGKSDR is trying to find the SB
>the >window says "initialization finished" but then
>it stays put and the computer crept uo to 100%
>It was working but I did try to configure it further.

What you say is precisely the same as happened on my set up. I was configuring further including display settings when my problem occured.
This may help Duncan in pinpointing what happens.

I don't know the SB Audigy at all, the latency setting refered to is in the Delta44 card own set up menu, not KGKSDR. maybe someone else knows.

I also re-installed KGKSDR over the top of the original during my problem solving this may have allowed me to get past the hang, I don't know.

Eddie

1111. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 09:35:41 UTC
From: Jose Bonanca
Topic: 1106 Message: 1111
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1112. Re: [kgksdr] Computer Hangs

Yahoo group: kgksdr
Date: 2007-10-30 09:42:38 UTC
From: Jose Bonanca
Topic: 1110 Message: 1112
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1113. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 15:42:15 UTC
From: Duncan Munro
Topic: 1106 Message: 1113

Jose Bonanca wrote:
> Hi Duncan,
>
> No joy yet... I deleted everything rebooted and installed again...
> As soon as I open kgksdr the cpu goes to 100 % and stays there forever.
> then I have to cold start the computer,,,
> Anything else I can try?

Hi Jose,

Did you set for 96kHz or something like that? It might be too much for the machine which is now jamming up and won't let you get in to change it to a lower setting. If this is the case post back and I'll explain how to fix.

Also if you are using ASIO4ALL you can change buffer sizes in there, Eddie has given you the details for the Delta 44 but ASIO4ALL also has buffer sizes which you can make larger - this makes things smoother and less chance of hanging up.

73,

Duncan
M0KGK

1114. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 16:05:53 UTC
From: Jose Bonanca
Topic: 1106 Message: 1114
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1115. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 16:41:49 UTC
From: Duncan Munro
Topic: 1106 Message: 1115

Jose Bonanca wrote:
> Yes Duncan I tried the 96KHz not sure if it happened at that time however.
> I too managed the ASIO4ALL right now I get the maximum buffer.
> Appreciate your efforts...
> 73's
> My machine is an AMD 2600 should be enough for the program I think.

My shack machine is AMD 2600, it seems to struggle with 96k @ 90-100%
CPU so I use 48k which it runs just fine.

I think we have to get you back to 48k to even get you into the software
by the sound of things.

Can you do Start -> Run and then type regedit in the box and press
OK, this will start the registry editor.

Go to:

HKEY_CURRENT_USER
Software
Duncan Amplification
M0KGK IQ Decoder
ASIO

Double click on the entry called IQSamplerate and change the value to
48000. This should get you back to 48k samplerate and (hopefully) into
the software when you next start KGKSDR.

73,

Duncan
M0KGK

1116. Re: [kgksdr] KGKSDR freezing computer

Yahoo group: kgksdr
Date: 2007-10-30 16:50:38 UTC
From: Jose Bonanca
Topic: 1106 Message: 1116
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1117. Microphone Pre Amp

Yahoo group: kgksdr
Date: 2007-11-06 08:42:29 UTC
From: g3zjo
Topic: 1117 Message: 1117

I have posted the schematic and photgraphs of a simple mic pre amp circuit I have used to bring a moving coil or electret microphone up to Line In levels for the Delta44 card.

They are on here at - Photos/g3zjo

Also on a link from my web site at - http://radioman.blog.co.uk

Credit for the cicuit goes to:-
Design and copyright Tomi Engdahl 1997,1999

1118. Frequency control.

Yahoo group: kgksdr
Date: 2007-11-07 13:59:46 UTC
From: justanotherguy62
Topic: 1118 Message: 1118

Would it be possable to implement a frequency control in this software.

It would use the Si 570 controlled by this
http://www.harbaum.org/till/i2c_tiny_usb/index.shtml
USB to i2c adaptor. Firmware and windows driver is open source.

Others are designing circuits with displays and such to control the
frequency, seems redundant when you need a computer anyway.

Thanks

Dan
ke5gni

1119. Re: Frequency control.

Yahoo group: kgksdr
Date: 2007-11-07 16:15:17 UTC
From: g4tsn
Topic: 1118 Message: 1119

--- In kgksdr@yahoogroups.com, "justanotherguy62" <dandan_54@...> wrote:
>
> Would it be possable to implement a frequency control in this
software.
>
> It would use the Si 570 controlled by this
> http://www.harbaum.org/till/i2c_tiny_usb/index.shtml
> USB to i2c adaptor. Firmware and windows driver is open source.
>
> Others are designing circuits with displays and such to control the
> frequency, seems redundant when you need a computer anyway.
>
> Thanks
>
> Dan
> ke5gni
>

I would be very interested in this also

Jon G4TSN

1120. Re: [kgksdr] Frequency control.

Yahoo group: kgksdr
Date: 2007-11-07 16:34:45 UTC
From: k5nwa
Topic: 1118 Message: 1120

At 07:59 AM 11/7/2007, you wrote:

>Would it be possable to implement a frequency control in this software.
>
>It would use the Si 570 controlled by this
><http://www.harbaum.org/till/i2c_tiny_usb/index.shtml>http://www.harbaum.org/till/i2c_tin
y_usb/index.shtml
>USB to i2c adaptor. Firmware and windows driver is open source.
>
>Others are designing circuits with displays and such to control the
>frequency, seems redundant when you need a computer anyway.
>
>Thanks
>
>Dan
>ke5gni

That link was brought up before, for most people that is all they
need, a very inexpensive solution, for others it can be a starting
point for a fancier version with a more powerful chip since the
source code is available.

Maybe a keyboard and display because there is more to the Universe
than SoftRocks, some are thinking of multiple uses for the device
while not tied to a PC. Since the device has a very large range of
operation it could be a general purpose signal generator, or a VFO to
a unit that you do not use with a PC, there are many other possibilities.

Cecil
KD5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1121. Re: [kgksdr] Frequency control.

Yahoo group: kgksdr
Date: 2007-11-07 16:53:15 UTC
From: Duncan Munro
Topic: 1118 Message: 1121

justanotherguy62 wrote:
> Would it be possable to implement a frequency control in this software.

The short answer is "yes" but it would need more details of the
interface (not just electrical, but commands).

73,

Duncan
M0KGK

1122. RE: [kgksdr] Frequency control.

Yahoo group: kgksdr
Date: 2007-11-07 17:21:59 UTC
From: Dan Daniels
Topic: 1118 Message: 1122

Duncan

Thanks for the reply, I will get working on what I can do and figure out what is needed. I am not a programmer hence the question.

Thanks
Dan

.> > The short answer is "yes" but it would need more details of the > interface (not just electrical, but commands).> > 73,> > Duncan> M0KGK

_____
Peek-a-boo FREE Tricks & Treats for You!
http://www.reallivemoms.com?ocid=TXT_TAGHM&loc=us

1123. Waterfall

Yahoo group: kgksdr
Date: 2007-11-08 13:24:04 UTC
From: nels_58701
Topic: 1123 Message: 1123

Is there anyway to change the brightness and contrast on the waterfall.
Can the color of the frequency text at the bottom of the waterfall be changed. Mine is black and unable to read with the dark blue waterfall background.
Thanks
Nels W0TUP

1124. bad audio

Yahoo group: kgksdr
Date: 2007-11-13 19:34:51 UTC
From: aarhus_ca
Topic: 1124 Message: 1124

Hi Duncan

Recently changed motherboards - and had all the 'fun' of getting things to work again... I had to re-install kgksdr; and redo the setting for ASIO4ALL - and it now works again - BUT the audio is distorted and nothing I do seems to improve it...
Any suggestions?

73 John VE3NFK

PS - all the other pgms are fine - Rocky, PowerSDR (I 'think' I am using ASIO on it), etc.

1125. Re: [kgksdr] bad audio

Yahoo group: kgksdr
Date: 2007-11-13 21:47:01 UTC
From: Duncan Munro
Topic: 1124 Message: 1125

aarhus_ca wrote:
> Hi Duncan
>
> Recently changed motherboards - and had all the 'fun' of getting
> things to work again... I had to re-install kgksdr; and redo the
> setting for ASIO4ALL - and it now works again - BUT the audio is
> distorted and nothing I do seems to improve it...
> Any suggestions?

Hi John, I had something similar when using 'hardware buffers' on ASIO4ALL (advanced settings), took it off and all was good. Might be worth playing around with buffer sizes too.

73,

Duncan
M0KGK

1126. Audio pumping

Yahoo group: kgksdr
Date: 2007-11-16 02:04:22 UTC
From: w7rjc
Topic: 1126 Message: 1126

Hi Duncan,
I have a interesting thing happening on the KGKSDR program.
While listening to the audio it goes up and down in volume. The s-meter pumps up & down fairly constantly.
I listened using Rocky and this doesn't happen.
KGKSDR works very well otherwise .. is there somrthing I may have setup wrong.(it acts like an old receiver with the AGC turned off)
I am using Xp on a 1.8 mhz computer and a Deta-44 soundcard.
Got any ideas? Thanks Ray W7RJC

1127. Re: [kgksdr] Audio pumping

Yahoo group: kgksdr
Date: 2007-11-16 08:00:01 UTC
From: Duncan Munro
Topic: 1126 Message: 1127

w7rjc wrote:
> Hi Duncan,
> I have a interesting thing happening on the KGKSDR program.
> While listening to the audio it goes up and down in volume. The s-
> meter pumps up & down fairly constantly.
> I listened using Rocky and this doesn't happen.
> KGKSDR works very well otherwise .. is there somrthing I may have
> setup wrong.(it acts like an old receiver with the AGC turned off)
> I am using Xp on a 1.8 mhz computer and a Deta-44 soundcard.
> Got any ideas? Thanks Ray W7RJC

Hi Ray, this is static, crackles or some other interference which is affecting the AGC. Try fast/med/slow AGC and see if the volume pumps quicker and slower.

You might want to try the ANL function in the DSP, I wrote this because I got pissed off with the volume going up and down every time I got a crackle on 40m.

Let me know how you get on.

73,

Duncan
M0KGK

1128. Re: [kgksdr] Waterfall

Yahoo group: kgksdr
Date: 2007-11-16 15:05:50 UTC
From: Duncan Munro
Topic: 1123 Message: 1128

nels_58701 wrote:
> Is there anyway to change the brightness and contrast
> on the waterfall.
> Can the color of the frequency text at the bottom of
> the waterfall be changed. Mine is black and unable to
> read with the dark blue waterfall background.

Hi Nels, just realised that I didn't reply to this one...

The short answer to the question is no as the colours are hard coded into the system. To be honest, the waterfall was part implemented very early on and I've pretty much ignored it since.

I'll have a look and see what's involved with sorting out some alternative colours.

73,

Duncan
M0KGK

1129. Re: Audio pumping

Yahoo group: kgksdr
Date: 2007-11-16 15:17:32 UTC
From: Dave
Topic: 1126 Message: 1129

> I listened using Rocky and this doesn't happen.

Since Rocky's spectrum display behaves differently (essentially displays the S/N ratio rather that absolute signal level), take a look at Rocky's "Noise: dBFS" level indicated on the status line and see if the noise level is actually changing in a cyclical manner.

Dave, WA3OFF

1130. KGKSDR Build 63 released: Colours on waterfall

Yahoo group: kgksdr
Date: 2007-11-16 15:27:39 UTC
From: Duncan Munro
Topic: 1130 Message: 1130

Build 63 of KGKSDR has been uploaded to the website at:

http://www.m0kgk.co.uk/sdr/download.php

Only one change in this build, the waterfall frequency text is now in white rather than the text used in the colour scheme. If your colour scheme had a dark text colour, it would go almost invisible on the waterfall.

==========
LATEST CHANGES TO M0KGK SDR

1.1.0.63 16/11/2007

FIXED: Frequency text on waterfall display is now white irrespective of the colour scheme selected.

73,

Duncan
M0KGK

1131. Re: bad audio

Yahoo group: kgksdr
Date: 2007-11-16 22:58:31 UTC
From: aarhus_ca
Topic: 1124 Message: 1131

Hi Duncan

Well I played with all those options - and got decent sound.. THEN I discover that the sound deteriorates over the next 2-5 minutes until it is raspy and unpleasant again... and after another couple of minutes 'might' revert to normal again.

This is on 20 with pretty poor/low signals.so agc/overload etc not an issue.
..
I then tried the latest versions of both sw - 1.1.63 and 2.8 latest beta... no change..

Any other ideas?

thanks 73 John VE3NFK

- building the latest softrock 6.2 RX/TX final for 20 meters - so hope i can iron this out.:-)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> aarhus_ca wrote:
> > Hi Duncan
> >
> > Recently changed motherboards - and had all the 'fun' of getting
> > things to work again... I had to re-install kgksdr; and redo the
> > setting for ASIO4ALL - and it now works again - BUT the audio is
> > distorted and nothing I do seems to improve it...
> > Any suggestions?
>
> Hi John, I had something similar when using 'hardware buffers' on
> ASIO4ALL (advanced settings), took it off and all was good. Might be
> worth playing around with buffer sizes too.
>
>
> 73,
>
> Duncan
> M0KGK
>

1132. source code sdrconsole??

Yahoo group: kgksdr
Date: 2007-11-28 17:40:57 UTC
From: g4tsn
Topic: 1132 Message: 1132

Anyone

Here got an old copy of the vb6 source code sdrconsole just wanting to have a play really

Thanks

Jon G4TSN

1133. Re: [kgksdr] source code sdrconsole??

Yahoo group: kgksdr
Date: 2007-11-28 18:16:40 UTC
From: Duncan Munro
Topic: 1132 Message: 1133

g4tsn wrote:
> Anyone
>
> Here got an old copy of the vb6 source code sdrconsole just wanting to
> have a play really

Hi Jon, there's no VB6 source code in KGKSDR?

73,

Duncan
M0KGK

1134. Re: [kgksdr] source code sdrconsole??

Yahoo group: kgksdr
Date: 2007-11-28 18:27:29 UTC
From: k5nwa
Topic: 1132 Message: 1134

At 11:40 AM 11/28/2007, you wrote:

>Anyone
>
>Here got an old copy of the vb6 source code sdrconsole just wanting to
>have a play really
>
>Thanks
>
>Jon G4TSN
>

Last I looked it was available in the FlexRadio website download
area. This was about 6 month ago.

Cecil
KD5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1136. HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-02 16:40:20 UTC
From: philip_g7jur
Topic: 1136 Message: 1136

Hi.

If anyone is looking for HB9TLK Loop.dll, and PSKcore.dll.
For use with KGKSDR, you can find them in the files folder at the
Yahoo Softrock 40 Groups

1137. Re: [kgksdr] HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-02 17:03:32 UTC
From: Duncan Munro
Topic: 1136 Message: 1137

philip_g7jur wrote:
> Hi.
>
> If anyone is looking for HB9TLK Loop.dll, and PSKcore.dll.
> For use with KGKSDR, you can find them in the files folder at the
> Yahoo Softrock 40 Groups

Philip, thanks for tracking that down.

I've had a good look round and couldn't find the files with google,
didn't think to look on the softrock group but should have worked out
that google is not going to automatically find stuff in yahoo groups...

73,

Duncan
M0KGK

1138. Re: HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-04 05:51:53 UTC
From: w7rjc
Topic: 1136 Message: 1138

Hi Philip & Duncan .. I am wondering if the HB9TLK Loop.dll and the PSKcore.dll will work with digipan? I know it works with winpsk but I would like to use KGKsdr with digipan. Thanks for your help.Ray W7RJC

--- In kgksdr@yahoogroups.com, "philip_g7jur" <philip_g7jur@...> wrote:

>
> Hi.
>
> If anyone is looking for HB9TLK Loop.dll, and PSKcore.dll.
> For use with KGKSDR, you can find them in the files folder at the
> Yahoo Softrock 40 Groups
>

1139. Re: [kgksdr] Re: HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-04 09:50:39 UTC
From: Duncan Munro
Topic: 1136 Message: 1139

w7rjc wrote:
> Hi Philip & Duncan .. I am wondering if the HB9TLK Loop.dll and the
> PSKcore.dll will work with digipan? I know it works with winpsk but I
> would like to use KGKsdr with digipan. Thanks for your help.Ray W7RJC

Hi Ray, I don't believe it will unless digipan itself is modified to
work with loop.dll

When I get round to moving the sound interface from ASIO to the normal
Windows drivers, it should be possible to use a third party app like VAC
to interface to Digipan, MixW, etc.

73,

Duncan
M0KGK

1140. Re: HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-04 20:09:02 UTC
From: w7rjc
Topic: 1136 Message: 1140

Hi Duncan .. thanks for the reply I'll enjoy the modification when you get to it .. Thanks Ray W7RJC

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> w7rjc wrote:
> > Hi Philip & Duncan .. I am wondering if the HB9TLK Loop.dll and the
> > PSKcore.dll will work with digipan? I know it works with winpsk but I
> > would like to use KGKsdr with digipan. Thanks for your help.Ray W7RJC
>
> Hi Ray, I don't believe it will unless digipan itself is modified to
> work with loop.dll
>
> When I get round to moving the sound interface from ASIO to the normal
> Windows drivers, it should be possible to use a third party app like VAC
> to interface to Digipan, MixW, etc.
>
> 73,
>
> Duncan
> M0KGK
>

1141. Re: HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2007-12-05 21:56:17 UTC
From: philip_g7jur
Topic: 1136 Message: 1141

--- In kgksdr@yahoogroups.com, "w7rjc" <w7rjc@...> wrote:
Hi Ray.

The Loop.dll will work with Multipsk.
You can try WINPSKSE just replace PSKcore.dll in the WINPSKSE folder.

Philip g7jur.

>
> Hi Philip & Duncan .. I am wondering if the HB9TLK Loop.dll and the
> PSKcore.dll will work with digipan? I know it works with winpsk but I
> would like to use KGKsdr with digipan. Thanks for your help.Ray W7RJC
>
> --- In kgksdr@yahoogroups.com, "philip_g7jur" <philip_g7jur@> wrote:
>
>
> >
> > Hi.
> >
> > If anyone is looking for HB9TLK Loop.dll, and PSKcore.dll.
> > For use with KGKSDR, you can find them in the files folder at the
> > Yahoo Softrock 40 Groups
> >
>

1142. Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-06 16:48:53 UTC
From: thetribologist
Topic: 1142 Message: 1142

I have a problem with the tone of the first part of the first character when I run CW in PTT mode. It sounds raw both in the headphones on the monitor and through a monitoring reciever. I first blames my reciever but when I heard the same raw tone in the monitor I start to think something else is going on.

It is at about 20-50ms of the first character. I get around it by increasing the time on but since the softrock could be full QSK it is a bit of a waste. I asked in the softrock forum but I did not get an answer there.

Any idea on what is going on?

Ulf
K1ULF

1143. Re: Frequency control.

Yahoo group: kgksdr
Date: 2007-12-06 16:59:56 UTC
From: thetribologist
Topic: 1118 Message: 1143

I think we could get to where we need and also leave options for other implementations other than the Si570 if the frequency in kHz would be sent on the TX pin as 2400 or 9600 baud ascii when selecting a frequency in the pull down.

Eg if I select the default Softrock 40 the software would transmit

#7056.000# on the serial port. Format does not matter but a start and a stop character is probaly a good idea.

Thanks for providing the software! It is awesome. I got my licence end of october and I finished up the softrock and got an antenna up end of November. I made my first QSO using your program and a Softrock. I don't have any other functional tranciever. I am fixing a TS520 but the TX part is not operational on it. I bought it so I can tune the Softrocks. THe plan is to acrap the AF part and use a modified Softrock to sample and drive the IF. Eg software defined TS-520.

Ulf
K1ULF

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> justanotherguy62 wrote:
> > Would it be possable to implement a frequency control in this software.
>
> The short answer is "yes" but it would need more details of the
> interface (not just electrical, but commands).
>
> 73,
>
> Duncan
> M0KGK
>

1144. Re: [kgksdr] Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-06 17:04:06 UTC
From: Duncan Munro
Topic: 1142 Message: 1144

thetribologist wrote:
> I have a problem with the tone of the first part of the first character
> when I run CW in PTT mode. It sounds raw both in the headphones on the
> monitor and through a monitoring reciever. I first blames my reciever
> but when I heard the same raw tone in the monitor I start to think
> something else is going on.
>
> It is at about 20-50ms of the first character. I get around it by
> increasing the time on but since the softrock could be full QSK it is a
> bit of a waste. I asked in the softrock forum but I did not get an
> answer there.
>
> Any idea on what is going on?

Hi Ulf, not sure what you mean by increasing the time on, do you mean
the TX hold time?

Also can you let me know what buffer sizes you are using with ASIO4ALL,
or if you are using a native ASIO card like the Delta 44. What offset
are you away from the centre frequency, and what CW sidetone freq are
you using?

73,

Duncan
M0KGK

1145. Re: Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-07 03:40:03 UTC
From: thetribologist
Topic: 1142 Message: 1145

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

>
> Hi Ulf, not sure what you mean by increasing the time on, do you mean
> the TX hold time?

Yes, I set it to 1000ms but I rather have some QSK. It would be great
to use it as help to get good word spacing.

>
> Also can you let me know what buffer sizes you are using with ASIO4ALL,
512 Samples

> or if you are using a native ASIO card like the Delta 44. What offset
> are you away from the centre frequency, and what CW sidetone freq are
> you using?
I typically hangs out around SKCC 3550 so about 1KHZ away from center.
I tried further away to. I use the 700HZ side tone.

I use a SB PCI 24 bit live

I hope to do some more testing tonight.

73'

Ulf
K1ULF

1146. Re: [kgksdr] Re: Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-07 09:36:32 UTC
From: Duncan Munro
Topic: 1142 Message: 1146

thetribologist wrote:
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
>> Hi Ulf, not sure what you mean by increasing the time on, do you mean
>> the TX hold time?
>
> Yes, I set it to 1000ms but I rather have some QSK. It would be great
> to use it as help to get good word spacing.
>
>> Also can you let me know what buffer sizes you are using with ASIO4ALL,
> 512 Samples
>
>
>> or if you are using a native ASIO card like the Delta 44. What offset
>> are you away from the centre frequency, and what CW sidetone freq are
>> you using?
> I typically hangs out around SKCC 3550 so about 1KHZ away from center.
> I tried further away to. I use the 700HZ side tone.
>
> I use a SB PCI 24 bit live
>
> I hope to do some more testing tonight.

OK thanks Ulf, I'll digest the stuff above. In the meantime (and I know it's asking a lot), would it be possible to do a recording of the particular noise?

73,

Duncan
M0KGK

1147. Re: Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-16 06:45:52 UTC
From: thetribologist
Topic: 1142 Message: 1147

Duncan, Sorry for the long delay to respond.

I got myself an old HP1740 oscilloscope last weekend. $20 on eBay!!!

Feels like I was blind and now I can see!

I was able to capture the chirp using my cellphone as oscilloscope
camera... I upploaded the traces in the Photos section.
It looks like 20ms square wave modulation for about 80ms. The scope
was set to 20ms/unit.

I hope this help. I will keep probing it with he scope to see where
the issue comes from.

Ulf

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> thetribologist wrote:
> > --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> >> Hi Ulf, not sure what you mean by increasing the time on, do you
mean
> >> the TX hold time?
> >
> > Yes, I set it to 1000ms but I rather have some QSK. It would be great
> > to use it as help to get good word spacing.
> >
> >> Also can you let me know what buffer sizes you are using with
ASIO4ALL,
> > 512 Samples
> >
> >
> >> or if you are using a native ASIO card like the Delta 44. What
offset
> >> are you away from the centre frequency, and what CW sidetone freq
are
> >> you using?
> > I typically hangs out around SKCC 3550 so about 1KHZ away from center.
> > I tried further away to. I use the 700HZ side tone.
> >
> > I use a SB PCI 24 bit live
> >
> > I hope to do some more testing tonight.
>

> OK thanks Ulf, I'll digest the stuff above. In the meantime (and I
know
> it's asking a lot), would it be possible to do a recording of the
> particular noise?
>
> 73,
>
> Duncan
> M0KGK
>

1148. Re: Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-16 07:07:55 UTC
From: thetribologist
Topic: 1142 Message: 1148

It is from the sound card. I connected the scope to the audio in.

I get the same result both from the built in card and the SB live24bit
internal I normally use.

The CW monitoring sound also have the chirp.

It is not a big deal. I learned to use the F9 and F10 for TX/RX.

Ulf

--- In kgksdr@yahoogroups.com, "thetribologist" <jonssouj@...> wrote:
>
> Duncan, Sorry for the long delay to respond.
>
> I got myself an old HP1740 oscilloscope last weekend. $20 on eBay!!!
>
> Feels like I was blind and now I can see!
>
> I was able to capture the chirp using my cellphone as oscilloscope
> camera... I upploaded the traces in the Photos section.
> It looks like 20ms square wave modulation for about 80ms. The scope
> was set to 20ms/unit.
>
> I hope this help. I will keep probing it with he scope to see where
> the issue comes from.
>
> Ulf
>
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > thetribologist wrote:
> > > --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> > >
> > >> Hi Ulf, not sure what you mean by increasing the time on, do you
> mean
> > >> the TX hold time?
> > >
> > > Yes, I set it to 1000ms but I rather have some QSK. It would be
great
> > > to use it as help to get good word spacing.
> > >
> > >> Also can you let me know what buffer sizes you are using with

> ASIO4ALL,
> > > 512 Samples
> > >
> > >
> > >> or if you are using a native ASIO card like the Delta 44. What
> offset
> > >> are you away from the centre frequency, and what CW sidetone freq
> are
> > >> you using?
> > > I typically hangs out around SKCC 3550 so about 1KHZ away from
center.
> > > I tried further away to. I use the 700HZ side tone.
> > >
> > > I use a SB PCI 24 bit live
> > >
> > > I hope to do some more testing tonight.
> >
> > OK thanks Ulf, I'll digest the stuff above. In the meantime (and I
> know
> > it's asking a lot), would it be possible to do a recording of the
> > particular noise?
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
>

1149. Re: [kgksdr] Re: Skroinchh sound at first key down when using PTT and CW on Softrock

Yahoo group: kgksdr
Date: 2007-12-17 19:40:17 UTC
From: Duncan Munro
Topic: 1142 Message: 1149

thetribologist wrote:
> It is from the sound card. I connected the scope to the audio in.
>
> I get the same result both from the built in card and the SB live24bit
> internal I normally use.
>
> The CW monitoring sound also have the chirp.
>
> It is not a big deal. I learned to use the F9 and F10 for TX/RX.

Hi Ulf,

Thanks for posting the scope pictures - it's a great help. It looks like your machine is having a job to keep up when going from TX to RX. Just as it moves across it probably needs a little extra CPU to switch, and that's where it's going wrong.

Some tips, although you may be doing one or more of these already:

* If you're on 96 khz sampling, please try 48k
* Increase the buffer size on ASIO4ALL
* Turn the receiver off during transmissions (either 'RX mute during TX' or 'TX monitor')

73,

Duncan
M0KGK

1150. When transmitting with KGKSDR I get the error that program must be shut down.

Yahoo group: kgksdr
Date: 2007-12-20 05:30:27 UTC
From: Janne Pulkkinen
Topic: 1150 Message: 1150

Hi!

I was about to test my finished homebrew SDR transceiver yesterday with KGKSDR, but it gave the "error has occured and that it must be shut down" (the one that is quite common in XP). It works OK at RX. I already reinstalled (and re-downloaded the installer) and emptied the "data" folder, but no help.

POWERSDR runs ok, but I hate the fact that it doesn't have the 1 sample delay possibility, so I can get the image rejection corrected in that one and I like the KGKSDR's visuality and easiness more :)

I tried to find similar problems by looking older subjects but couldn't find one.

Equipment:
AMD Athlong 3200+/64-bit (using 32) with 1G memory. E-MU 0404 PCI ASIO soundcard

73 de Janne, OH1GTF

1151. test

Yahoo group: kgksdr
Date: 2007-12-23 16:29:36 UTC
From: w6icm
Topic: 1151 Message: 1151

Happy Holidays to all

1152. Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-28 16:00:48 UTC
From: Des
Topic: 1152 Message: 1152

Hi Duncan and the group,

If I may I should like to ask a question?

My interest in SDR has recently been rekindled after reading a chapter in the RSGB's 9th edition Radio Communication Handbook and by the intoduction of BasicDSP...

http://wwwhome.cs.utwente.nl/~ptdeboer/ham/basicdsp/

In the chapter I read (and if I understand correctly) it is suggested that in one commercial piece of SDR hardware an impulse signal is used with a 5nS rise time to create a "comb" of carrier signals throughout the RF band in order to provide signals for the sdr software to autocorrect the phase/amplitude of the I/Q sigmals.

So... does this mean I could "knock together" a crystal calibrator type circuit with say a 1MHz xtal divided down to provide an o/p with fast edges at say 1kHz and use the resulting "comb" to provide in-band RF harmonic signals for KGKSDR to perform its auto phase/amplitude correction or would you recommend using a stable single signal and perform the correction manually at severel points within the band?

A happy 2008 to yourself and all members of the list.

73,s

Des (M0AYF)

1153. Re: [kgksdr] Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-28 16:54:53 UTC
From: Duncan Munro
Topic: 1152 Message: 1153

Des wrote:

> [...]
> So... does this mean I could "knock together" a crystal calibrator
> type circuit with say a 1MHz xtal divided down to provide an o/p with
> fast edges at say 1kHz and use the resulting "comb" to provide in-band
> RF harmonic signals for KGKSDR to perform its auto phase/amplitude
> correction or would you recommend using a stable single signal and
> perform the correction manually at severel points within the band?

Hi Des,

It's certainly an interesting idea for exploring further and the software would make use of the signals for calibration purposes (over a period of time).

73,

Duncan
M0KGK

1154. Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-29 12:16:54 UTC
From: Des
Topic: 1152 Message: 1154

Hi again Duncan,

First of all many thanks for the very fast response to my calibration question.

My reason for exploring this concept was in order to "speed-up" the calibration process following a loss of my softrock I/Q RX calibration files. I forgot to back them up following a re-build of my shack PC :-(

Your comment is encouraging so I will go ahead and give it a try and post my findings to this list. Back in the days when I had access to a spectrum analyser I recall seeing harmonics from square waves with fast edges which decrease in amplitude with increasing frequency. This was using a span of 100 MHz or so but over the fairly limited bandwidth of the average ham-band I would expect the amplitude of the harmonics to be fairly constant but it will be interesting to see what happens.

BTW What sort of period would I need to leave the comb signal switched on for in order for KGKSDR to obtain a sufficient number of calibration points? I would imagine this will depend a great deal on the speed of the PC hardware but perhaps you could suggest a ball-park figure?

73,s to all.

Des (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Des wrote:
>
> > [...]
> > So... does this mean I could "knock together" a crystal calibrator
> > type circuit with say a 1MHz xtal divided down to provide an o/p with
> > fast edges at say 1kHz and use the resulting "comb" to provide in-band
> > RF harmonic signals for KGKSDR to perform its auto phase/amplitude
> > correction or would you recommend using a stable single signal and
> > perform the correction manually at severel points within the band?
>
> Hi Des,
>
> It's certainly an interesting idea for exploring further and the
> software would make use of the signals for calibration purposes (over a
> period of time).
>
> 73,

>
> Duncan
> M0KGK
>

1155. Re: [kgksdr] Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-29 12:53:17 UTC
From: Duncan Munro
Topic: 1152 Message: 1155

Des wrote:

> [...]
> BTW What sort of period would I need to leave the comb signal switched
> on for in order for KGKSDR to obtain a sufficient number of
> calibration points? I would imagine this will depend a great deal on
> the speed of the PC hardware but perhaps you could suggest a ball-park
> figure?

Hi Des, I've given your spike generator idea a bit more thought and there is one drawback with it (unfortunately a very serious one).

The auto calibration feature on KGKSDR, and Rocky too for that matter, relies on measuring and eliminating correlated signals on either side of the centre frequency.

In plain English, if your centre is 7050 kHz and the wanted signal is at 7040, there will be a small image at 7060. KGKSDR measures the correlation between the 7040 and the 7060 to find out how much really is image and how much is random junk. This is then used to derive the correction factors to eliminate the image.

Turning back to your spike generator for a moment, all the spikes are correlated with each other. If you end up with a spike at centre-f and one at centre+f (or even close to it), you're completely stuffed. It will treat the second spike as an image of the first, and try to eliminate it with horrendous consequences.

It's possible you could put the spikes far enough apart and carefully select the frequencies to avoid this, but it would require a bit of careful design to ensure two spikes never mirrored with each other.

Sorry for the long post but I wanted to explain why the idea could pose potential problems rather than just say "it's a bad idea".

73,

Duncan
M0KGK

1156. IQ data files

Yahoo group: kgksdr
Date: 2007-12-29 17:27:03 UTC
From: Duncan Munro
Topic: 1156 Message: 1156

A sizeable IQ data file from Rocky was posted recently using Bit Torrent technology. Takes a while to get there, but it's a painless and reliable way to get hold of a file of 1GB - 2GB in size.

GM4KGK has been collecting IQ data files and I thought it might be nice to make them available to a wider audience using the same technology.

An initial file has been put on the tracker at:
http://thepiratebay.org/tor/3952725

It's the CQ WW SSB contest from 23/3/2006 and is around 1GB in size. It's a 96k file so please only download if your system is fast enough to support this samplerate.

You will need software to download Bit Torrent files, I found uTorrent the easiest to set up and use: http://www.utorrent.com/download.php

I'll see how it goes, if it doesn't trash my broadband connection I'll put some more online in different sizes, 70MB - 1000MB. ps: My broadband between 1600-0000 GMT/UTC can be limited, and the original file seed may not be available at all during these times. Hang on in there, it will all download eventually.

73,

Duncan
M0KGK

1157. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-29 19:39:52 UTC
From: k5nwa
Topic: 1156 Message: 1157

At 11:27 AM 12/29/2007, you wrote:

>A sizeable IQ data file from Rocky was posted recently using Bit
>Torrent technology. Takes a while to get there, but it's a painless
>and reliable way to get hold of a file of 1GB - 2GB in size.
>
>GM4KGK has been collecting IQ data files and I thought it might be
>nice to make them available to a wider audience using the same technology.
>
>An initial file has been put on the tracker at:
><http://thepiratebay.org/tor/3952725>http://thepiratebay.org/tor/3952725
>
>It's the CQ WW SSB contest from 23/3/2006 and is around 1GB in size.
>It's a 96k file so please only download if your system is fast enough
>to support this samplerate.
>
>You will need software to download Bit Torrent files, I found uTorrent
>the easiest to set up and use:
><http://www.utorrent.com/download.php>http://www.utorrent.com/download.php
>
>I'll see how it goes, if it doesn't trash my broadband connection I'll
>put some more online in different sizes, 70MB - 1000MB. ps: My
>broadband between 1600-0000 GMT/UTC can be limited, and the original
>file seed may not be available at all during these times. Hang on in
>there, it will all download eventually.
>
>73,
>
>Duncan
>M0KGK
>

When I get home from work I will download the file and leave the
Torrent software running until Wednesday morning so it will be an
additional seed, I have a fairly fast Internet service and when I
have done it in the past it did not impact my personal use of the Internet.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1158. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-29 19:59:22 UTC
From: Duncan Munro
Topic: 1156 Message: 1158

k5nwa wrote:

> When I get home from work I will download the file and leave the Torrent
> software running until Wednesday morning so it will be an additional
> seed, I have a fairly fast Internet service and when I have done it in
> the past it did not impact my personal use of the Internet.

Thanks Cecil, as you point out, it really does help if people can leave
their torrent download software on for a day or two after downloading as
that spreads the load around instead of my machine getting overworked :-)

73,

Duncan
M0KGK

1159. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 01:35:54 UTC
From: k5nwa
Topic: 1156 Message: 1159

At 01:59 PM 12/29/2007, you wrote:

>k5nwa wrote:
>
> > When I get home from work I will download the file and leave the Torrent
> > software running until Wednesday morning so it will be an additional
> > seed, I have a fairly fast Internet service and when I have done it in
> > the past it did not impact my personal use of the Internet.
>
>Thanks Cecil, as you point out, it really does help if people can leave
>their torrent download software on for a day or two after downloading as
>that spreads the load around instead of my machine getting overworked :-)
>
>73,
>
>Duncan
>M0KGK

I'm trying to download the file but there are no seeds available to
download from. :'(

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1160. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 10:34:43 UTC
From: Duncan Munro
Topic: 1156 Message: 1160

k5nwa wrote:

> I'm trying to download the file but there are no seeds available to
> download from. :'(

Hi Cecil, I'm trying to do the initial seed, someone is pulling the file
now and is 40% through.

73,

Duncan
M0KGK

1161. Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-30 13:11:31 UTC
From: Des
Topic: 1152 Message: 1161

Hi again Duncan,

Many thanks for taking the time to present a detailed response to my last posting, I had to read your response a few times before "the penny dropped" and I also scribbled a few spectrum diagrams on a newspaper to try and get it clear in my head.

But just to be sure I understand the pottential problem correctly... Would it be true to say the worst possible case would be to have one of the harmonics at exactly the center frequency "Fc" and that with the other harmonics distributed by equal ammounts both above and below "Fc" the software would not be able to decide which is a real signal and which is an image because both image and wanted signals would be in the same positions?

If the above "clumsy" statement is correct then would it also be true to say that if I used say 5kHz harmonics and carefully placed the "comb" such that one of the harmonics was say 3kHz above "Fc" This should mean the image would be 3 kHz below "Fc" and the next "real" harmonic would be 2kHz below "Fc" with its image 2kHz above "Fc" Would this satisfy the requirements for auto correction or have I gone off on a tangent Hi.

BTW While I remeber to ask, you have on your web site a utility/tool for generating I/Q test signals. At M0AYF we have one of those "annoying" "Soundblaster Live!" series cards which requires one of the channels to be delayed by one sample for correct operation with SDR software. Will the "delay L/R by one sample" issue pose any kind of problem when using the I/Q test signal software? My instinct says I should simply look for a 90 degree phase shift between L/R line O/P signals on a dual trace scope but I am unsure if I would see a small (though critical) phase error using a CRO.

Thanks again for your time and help so far in clearing the "fog" with SDR issues for me.

73,s

Des.

1162. Re: [kgksdr] Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-30 14:50:57 UTC
From: Duncan Munro
Topic: 1152 Message: 1162

Des wrote:
> But just to be sure I understand the pottential problem correctly...
> Would it be true to say the worst possible case would be to have one
> of the harmonics at exactly the center frequency "Fc" and that with
> the other harmonics distributed by equal ammounts both above and below
> "Fc" the software would not be able to decide which is a real signal
> and which is an image because both image and wanted signals would be
> in the same positions?

Hi Des, this is spot on - avoid fc and you are OK, but you also need to
avoid fc +/- b/2 where b is the base frequency (i.e. 5kHz).

> If the above "clumsy" statement is correct then would it also be true
> to say that if I used say 5kHz harmonics and carefully placed the
> "comb" such that one of the harmonics was say 3kHz above "Fc" This
> should mean the image would be 3 kHz below "Fc" and the next "real"
> harmonic would be 2kHz below "Fc" with its image 2kHz above "Fc"
> Would this satisfy the requirements for auto correction or have I gone
> off on a tangent Hi.

That would be OK, if you can get 2kHz away even better still to avoid
any FFT sidebands from affecting the results.

> BTW While I remeber to ask, you have on your web site a utility/tool
> for generating I/Q test signals. At M0AYF we have one of those
> "annoying" "Soundblaster Live!" series cards which requires one of the
> channels to be delayed by one sample for correct operation with SDR
> software. Will the "delay L/R by one sample" issue pose any kind of
> problem when using the I/Q test signal software? My instinct says I
> should simply look for a 90 degree phase shift between L/R line O/P
> signals on a dual trace scope but I am unsure if I would see a small
> (though critical) phase error using a CRO.

This will be OK as the soundblaster sample delay problem only affects
input, the outputs of the card are fine.

73,

Duncan
M0KGK

1163. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 17:48:40 UTC
From: k5nwa
Topic: 1156 Message: 1163

At 04:34 AM 12/30/2007, you wrote:

>k5nwa wrote:
>
> > I'm trying to download the file but there are no seeds available to
> > download from. :'(
>
>Hi Cecil, I'm trying to do the initial seed, someone is pulling the file
>now and is 40% through.
>
>73,
>
>Duncan
>M0KGK
>

I have 70% but it's very erratic (733K), it will go for several
minutes without downloading anything then it downloads for a while.
It's like I'm downloading from a third party and I have to wait until
he gets more of the file. My upload is erratic also (530k), I wish
these clients would allow you to see who the seeds are and their data
rates and pick which ones to use.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1164. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 18:30:17 UTC
From: Duncan Munro
Topic: 1156 Message: 1164

k5nwa wrote:

> I have 70% but it's very erratic (733K), it will go for several
> minutes without downloading anything then it downloads for a while.
> It's like I'm downloading from a third party and I have to wait until
> he gets more of the file. My upload is erratic also (530k), I wish
> these clients would allow you to see who the seeds are and their data
> rates and pick which ones to use.

Hi Cecil, the speed graph seems fairly bursty. Static for about 5-10 mins then down to zero for a minute or so. This is affecting all three downloaders so I'm assuming it's something with my own ISP.

73,

Duncan
M0KGK

1165. questions on serial interface with Softrock RXTX6.2 using KGKSDR

Yahoo group: kgksdr
Date: 2007-12-30 19:33:32 UTC
From: kd4pbj
Topic: 1165 Message: 1165

Hi,

I have just decided on using the KGKSDR with my new Softrock RXTX since I currently only have one soundcard (Soundblaster Live!) in my PC.
I am a little confused with how to wire the DB9 that I have mounted on the Softrock.
The instructions in the software (Help menu, Connections) say to connect the PTT In to pin 4 of the DB9 but a drawing I found in the Files section (under Duncan's folder, TX files, Single soundcard)of this website says to connect PTT to pin 7 of the DB9.
Could I please get clarification of this? I have already connected ground to pin 5.

Also I see that mention in the same drawing under the Files section of how to wire a straight key. How would one connect paddles to the serial port? I saw mention under the help file of using pull down resistors in order not to burn out the level shifters on the serial port and I wanted a bit of clarification on this too before I took a chance with the PC!!!

Thank you.

Chris
KD4PBJ

1166. Re: [kgksdr] questions on serial interface with Softrock RXTX6.2 using KGKSDR

Yahoo group: kgksdr
Date: 2007-12-30 20:20:06 UTC
From: Duncan Munro
Topic: 1165 Message: 1166

kd4pbj wrote:
> Hi,
>
> I have just decided on using the KGKSDR with my new Softrock RXTX
> since I currently only have one soundcard (Soundblaster Live!) in my
> PC.
> I am a little confused with how to wire the DB9 that I have mounted
> on the Softrock.
> The instructions in the software (Help menu, Connections) say to
> connect the PTT In to pin 4 of the DB9 but a drawing I found in the
> Files section (under Duncan's folder, TX files, Single soundcard)of
> this website says to connect PTT to pin 7 of the DB9.
> Could I please get clarification of this? I have already connected
> ground to pin 5.

Hi Chris, go for what it says in Help|Connections. This is a later
incarnation and reflects the similar connections to that used for Rocky.

> Also I see that mention in the same drawing under the Files section
> of how to wire a straight key. How would one connect paddles to the
> serial port?

KGKSDR does not currently support a paddle so there are no diagrams of
how to connect one up.

> I saw mention under the help file of using pull down
> resistors in order not to burn out the level shifters on the serial
> port and I wanted a bit of clarification on this too before I took a
> chance with the PC!!!

Hmmmm... I'll have a look, don't recall saying it would burn out level
shifters so if that's the case, I'll change it. Resistors shouldn't be
needed so if you just go by what's in Help|Connections it should all be
fine.

73,

Duncan
M0KGK

1167. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 23:15:59 UTC
From: k5nwa
Topic: 1156 Message: 1167

At 12:30 PM 12/30/2007, you wrote:

>k5nwa wrote:
>
> > I have 70% but it's very erratic (733K), it will go for several
> > minutes without downloading anything then it downloads for a while.
> > It's like I'm downloading from a third party and I have to wait until
> > he gets more of the file. My upload is erratic also (530k), I wish
> > these clients would allow you to see who the seeds are and their data
> > rates and pick which ones to use.
>
>Hi Cecil, the speed graph seems fairly bursty. Static for about 5-10
>mins then down to zero for a minute or so. This is affecting all three
>downloaders so I'm assuming it's something with my own ISP.
>
>73,
>
>Duncan
>M0KGK
>

I have the file at 100%, and I uploaded 648MB but there are no
persons trying to download at present. Better take advantage while
you can, there are three seeders at this time.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1168. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-30 23:58:21 UTC
From: Duncan Munro
Topic: 1156 Message: 1168

k5nwa wrote:

> I have the file at 100%, and I uploaded 648MB but there are no
> persons trying to download at present. Better take advantage while
> you can, there are three seeders at this time.

Thanks Cecil, three seeders and one leecher in JA hopefully will keep the file on for a little while to seed further. Just a reminder of the download link:

http://thepiratebay.org/user/duncanamps

I might stick a few more files on there and see how it goes.

73,

Duncan
M0KGK

1169. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-31 00:52:49 UTC
From: k5nwa
Topic: 1156 Message: 1169

At 05:58 PM 12/30/2007, you wrote:

>k5nwa wrote:
>
> > I have the file at 100%, and I uploaded 648MB but there are no
> > persons trying to download at present. Better take advantage while
> > you can, there are three seeders at this time.
>
>Thanks Cecil, three seeders and one leecher in JA hopefully will keep
>the file on for a little while to seed further. Just a reminder of the
>download link:
>
><http://thepiratebay.org/user/duncanamps>http://thepiratebay.org/user/duncanamps
>
>I might stick a few more files on there and see how it goes.
>
>73,
>
>Duncan
>M0KGK
>

A simple question, if one needs to reboot a PC that is a seed, how
does one get back to being a seed after a re-boot? I have BitTorrent V6.0

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1170. Re: IQ data files

Yahoo group: kgksdr
Date: 2007-12-31 04:30:34 UTC
From: jr6muf_2007
Topic: 1156 Message: 1170

Hello Dear Duncan san and all

I installed uTrennnnt and successfuly downloaded the whole file.
Thank you very much.
Now I can hear the contest QSO by KGKSDR 1.0 Receivers Build 33.

I now still continue the activation of uTorrent.
now nobody uploads the file,but I'd like to activate it as long as
possible.

Now,If everybody knows the infomation of this file,plz let me know
them below

1)The setting of the center frequency
2)the equipment to record .It is RXTX ver 6.1? without modification?
3)What kind of the antenna has been used?
4)the bottom of the noise floor level is about -120dBm,is it reflect
the actual level?

Very interesting! So many strong signals could be heard.

Thanks

Hiro/JR6MUF

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> A sizeable IQ data file from Rocky was posted recently using Bit
> Torrent technology. Takes a while to get there, but it's a
painless
> and reliable way to get hold of a file of 1GB - 2GB in size.
>
> GM4KGK has been collecting IQ data files and I thought it might be
> nice to make them available to a wider audience using the same
technology.
>
> An initial file has been put on the tracker at:
> http://thepiratebay.org/tor/3952725
>
> It's the CQ WW SSB contest from 23/3/2006 and is around 1GB in
size.
> It's a 96k file so please only download if your system is fast
enough
> to support this samplerate.
>
> You will need software to download Bit Torrent files, I found
uTorrent

> the easiest to set up and use:
http://www.utorrent.com/download.php
>
> I'll see how it goes, if it doesn't trash my broadband connection
I'll
> put some more online in different sizes, 70MB - 1000MB. ps: My
> broadband between 1600-0000 GMT/UTC can be limited, and the
original
> file seed may not be available at all during these times. Hang on
in
> there, it will all download eventually.
>
> 73,
>
> Duncan
> M0KGK
>

1171. Serial Interface with VXO

Yahoo group: kgksdr
Date: 2007-12-31 08:29:28 UTC
From: thetribologist
Topic: 1171 Message: 1171

Duncan,

Have you had any thoughts on the possibility of having the software send some characters on the serial port when a new center frequency is selected? I got my Si570 VXO chip and I am playing with the micro controller that will drive it. For now I am going to set a number of fixed frequencies and select them using buttons but it would be neat to have it tied to the serial port and let M0KGK do the switching.

Ulf
K1ULF

1172. Re: [kgksdr] Re: IQ data files

Yahoo group: kgksdr
Date: 2007-12-31 10:33:18 UTC
From: N Munro
Topic: 1156 Message: 1172

jr6muf_2007 wrote:
>
> Hello Dear Duncan san and all
>
> Now,If everybody knows the infomation of this file,plz let me know
> them below
>
> 1)The setting of the center frequency
> 2)the equipment to record .It is RXTX ver 6.1? without modification?
> 3)What kind of the antenna has been used?
> 4)the bottom of the noise floor level is about -120dBm,is it reflect
> the actual level?
>
> Very interesting! So many strong signals could be heard.
>
> Thanks
>
> Hiro/JR6MUF
>

Hiro san,
Details of the recording are as follows:
1. Centre frequency is 7055.75 kHz
2. Receiver is Softrock V6.0 for 40/80m (Rx only - not Tx/RX).
3. Antenna is Butternut HF9-V vertical. Ground mounted with about 40 radials.
4. Noise level here with the antenna disconnected is about -130dBm. Connecting the antenna on a quiet band raises the level by about 5dBm. A figure of -120dBm would be about right for a very active contest.

Recordings made at my QTH - LOC: IO68ve.

73

Norman - GM4KGK

1173. Re: [kgksdr] IQ data files

Yahoo group: kgksdr
Date: 2007-12-31 11:07:11 UTC
From: Duncan Munro
Topic: 1156 Message: 1173

k5nwa wrote:

> A simple question, if one needs to reboot a PC that is a seed, how does
> one get back to being a seed after a re-boot? I have BitTorrent V6.0

Hi Cecil,

From memory with BitTorrent 6, you just reboot and if the file is in your download area it will keep it in the list. The fact that it is there and 100% complete will (I believe) make it a seed anyway as long as your tracker list is up to date.

The tracker for the initial upload was
http://tpb.tracker.thepiratebay.org:80/announce

Hope this helps.

73,

Duncan
M0KGK

1174. Re: [kgksdr] Serial Interface with VXO

Yahoo group: kgksdr
Date: 2007-12-31 11:08:59 UTC
From: Duncan Munro
Topic: 1171 Message: 1174

thetribologist wrote:
> Duncan,
>
> Have you had any thoughts on the possibility of having the software
> send some characters on the serial port when a new center frequency
> is selected? I got my Si570 VXO chip and I am playing with the micro
> controller that will drive it. For now I am going to set a number of
> fixed frequencies and select them using buttons but it would be neat
> to have it tied to the serial port and let M0KGK do the switching.

Hi Ulf, my priority at this time is to remove ASIO as this makes the software unusable for some ops. There will be a serial port output and probably along the lines of copying Icom/Kenwood/etc. CAT control but I don't know when this will be available.

73

Duncan
M0KGK

1175. Re: [kgksdr] Serial Interface with VXO

Yahoo group: kgksdr
Date: 2007-12-31 16:10:31 UTC
From: k5nwa
Topic: 1171 Message: 1175

At 02:29 AM 12/31/2007, you wrote:

>Duncan,
>
>Have you had any thoughts on the possibility of having the software
>send some characters on the serial port when a new center frequency
>is selected? I got my Si570 VXO chip and I am playing with the micro
>controller that will drive it. For now I am going to set a number of
>fixed frequencies and select them using buttons but it would be neat
>to have it tied to the serial port and let M0KGK do the switching.
>
>Ulf
>K1ULF

What I would love to see is for Duncan, Alberto, and Alex to get
together and agree to use something like the Flex Kenwood protocol so
that all four major software packages talk the same way. The
protocols are published and are not complicated. This would also
allow these respective softwares to be controlled by external logging software.

Out of curiosity what CPU will you be using in your controller. I
still have not made up my mind which one to use for the first cut,
but I'm leaning towards a AVR ATMega168 with a PIC18F2550 as a second
choice, it has built in USB. I usually like to use the MSP430 family
but I want to do something a little different.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1176. Re: [kgksdr] Serial Interface with VXO

Yahoo group: kgksdr
Date: 2007-12-31 16:20:50 UTC
From: Duncan Munro
Topic: 1171 Message: 1176

k5nwa wrote:

> What I would love to see is for Duncan, Alberto, and Alex to get
> together and agree to use something like the Flex Kenwood protocol so
> that all four major software packages talk the same way. The
> protocols are published and are not complicated. This would also
> allow these respective softwares to be controlled by external logging software.

That's just what I need, an idea on direction. It's all too easy to go
away and invent another wheel :-)

73,

Duncan
M0KGK

1177. Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2007-12-31 17:09:53 UTC
From: Des
Topic: 1152 Message: 1177

Hi again Duncan,

Just a couple of lines to say "thanks" for your in-depth responses to
my last two postings/questions.

I think I have it all clear in my head now plus I have been educated a
little more in SDR. You pointed out a few things I would never have
thought about prior to your answers.

I will build/test a simple (though stable) crystal oscillator plus
harmonic generator and see if it proves useful. I will report my
results to the list.

Thanks again and best wishes to you and your family for 2008.

73,s

Des. (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Des wrote:
> > But just to be sure I understand the pottential problem correctly...
> > Would it be true to say the worst possible case would be to have one
> > of the harmonics at exactly the center frequency "Fc" and that with
> > the other harmonics distributed by equal ammounts both above and below
> > "Fc" the software would not be able to decide which is a real signal
> > and which is an image because both image and wanted signals would be
> > in the same positions?
>
> Hi Des, this is spot on - avoid fc and you are OK, but you also need to
> avoid fc +/- b/2 where b is the base frequency (i.e. 5kHz).
>
> > If the above "clumsy" statement is correct then would it also be true
> > to say that if I used say 5kHz harmonics and carefully placed the
> > "comb" such that one of the harmonics was say 3kHz above "Fc" This
> > should mean the image would be 3 kHz below "Fc" and the next "real"
> > harmonic would be 2kHz below "Fc" with its image 2kHz above "Fc"
> > Would this satisfy the requirements for auto correction or have I gone
> > off on a tangent Hi.
>
> That would be OK, if you can get 2kHz away even better still to avoid
> any FFT sidebands from affecting the results.
>
> > BTW While I remeber to ask, you have on your web site a utility/tool
> > for generating I/Q test signals. At M0AYF we have one of those
> > "annoying" "Soundblaster Live!" series cards which requires one of the

> > channels to be delayed by one sample for correct operation with SDR
> > software. Will the "delay L/R by one sample" issue pose any kind of
> > problem when using the I/Q test signal software? My instinct says I
> > should simply look for a 90 degree phase shift between L/R line O/P
> > signals on a dual trace scope but I am unsure if I would see a small
> > (though critical) phase error using a CRO.
>
> This will be OK as the soundblaster sample delay problem only affects
> input, the outputs of the card are fine.
>
> 73,
>
> Duncan
> M0KGK
>

1178. Soundcard setup question and problem with KGKSDR not responding at certain times

Yahoo group: kgksdr
Date: 2007-12-31 17:24:57 UTC
From: kd4pbj
Topic: 1178 Message: 1178

Hi,

OK now I have run into two issues. Here is the background on the system:

I have an internal Soundblaster Live that came with the PC, which is a
Dell Dimension Pentium 4, running at 3.06 Ghz with 512 MB of RAM. I am running Windows XP Professional version 2002, service Pack 2.

I went to the Help section in KGKSDR to see how to set up the soundcard. The third item under Initial Configuration mentions how to configure the soundcard. Once this link is clicked, at the bottom of th page under Additional Tips is the following text:

"Go to the Creative Device Control application Start -> Programs -> Creative -> Device Control. Adjust the card capabilities to 96kHz and 24bit. Without this, you won't get the full bandwidth of this card. "

I went to Start, All Programs, and then Creative. I do not have an item called Device Control. I have Creative Play Center and Sound Blaster Live as my two choices. Creative Play Center seems to be some music management information, so I clicked on Sound Blaster Live. The choices are: Creative Diagnostics, Creative Diagnostics Agent, Creative Mixer, Creative Recorder, Creative Restore Defaults, Creative Wave Studio, and Users Guide. The users guide does not appear to have anything about changing the bandwidth to 96 khz. Has anyone had experience with this card?

My second question follows.
When I go to Options (in the KGKSDR software)and click on Transceiver, I am allowed to make changes. But when I try to close this box, the application freezes and I get a message that the application is not responding. Any thoughts on this? Thanks in advance for any help.

Chris
KD4PBJ

1179. Re: [kgksdr] Soundcard setup question and problem with KGKSDR not responding at certain times

Yahoo group: kgksdr
Date: 2007-12-31 17:33:45 UTC
From: Duncan Munro
Topic: 1178 Message: 1179

kd4pbj wrote:

> I went to Start, All Programs, and then Creative. I do not have an
> item called Device Control. I have Creative Play Center and Sound
> Blaster Live as my two choices. Creative Play Center seems to be
> [...]

Hi Chris,

Those instructions are for the SB Live! 24 and I'm beginning to wonder if your card is a different one? Maybe someone else on the list will have more experience of what's in the Dell laptop and may be able to answer that one.

> My second question follows.
> When I go to Options (in the KGKSDR software)and click on
> Transceiver, I am allowed to make changes. But when I try to close
> this box, the application freezes and I get a message that the
> application is not responding. Any thoughts on this? Thanks in
> advance for any help.

If the app freezes you are most likely trying to do 96kHz processing and your system is not quick enough to keep up with it. The problem then is trying to get it back which is almost impossible as the PC is maxed out trying to process all the audio info.

Here's a way to fix it...

Close KGKSDR (forcibly if need be).

Start > Run, in the box marked open, type regedit then click the OK button.

Open up HKEY_CURRENT_USER > Software > Duncan Amplification > M0KGK IQ Decoder > ASIO

In the right hand panel, click the entry called IQSamplerate and change it to 48000.

Start KGKSDR again and it's back to 48k.

73,

Duncan
M0KGK

1180. Re: Soundcard setup question and problem with KGKSDR not responding at certain times

Yahoo group: kgksdr
Date: 2007-12-31 20:19:32 UTC
From: kd4pbj
Topic: 1178 Message: 1180

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> kd4pbj wrote:
>
> > I went to Start, All Programs, and then Creative. I do not have
an
> > item called Device Control. I have Creative Play Center and Sound
> > Blaster Live as my two choices. Creative Play Center seems to be
> > [...]
>
> Hi Chris,
>
> Those instructions are for the SB Live! 24 and I'm beginning to
wonder
> if your card is a different one? Maybe someone else on the list
will
> have more experience of what's in the Dell laptop and may be able
to
> answer that one.
>
> > My second question follows.
> > When I go to Options (in the KGKSDR software)and click on
> > Transceiver, I am allowed to make changes. But when I try to
close
> > this box, the application freezes and I get a message that the
> > application is not responding. Any thoughts on this? Thanks in
> > advance for any help.
>
> If the app freezes you are most likely trying to do 96kHz
processing and
> your system is not quick enough to keep up with it. The problem
then is
> trying to get it back which is almost impossible as the PC is maxed
out
> trying to process all the audio info.
>
> Here's a way to fix it...
>
> Close KGKSDR (forcibly if need be).
>
> Start > Run, in the box marked open, type regedit then click the OK
button.
>
> Open up HKEY_CURRENT_USER > Software > Duncan Amplification > M0KGK

IQ
> Decoder > ASIO
>
> In the right hand panel, click the entry called IQSamplerate and
change
> it to 48000.
>
> Start KGKSDR again and it's back to 48k.
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan,

I went into the Regedit to the specific file you asked me to change. The setting was ac44 (hex) which turned out to be 44100 (dec). I changed that to 48000 and it is acting a little bit better. I went ahead and restarted the computer, and under Options, Transceiver, all of the information was blank on the left side of the screen under ASIO Soundcard (beginning with Driver, ending with TX IQ output). The sample rate was filled in correctly. I started at the bottom and chose Creative SB Live! Series 1 (I had three choices- series 1, 3 and 5) for everything. I clicked ok and the window shut down normally. I went back to fill in the Driver box at the top (this had been giving me problems before so I saved this till last) and it began that freeze thing as soon as I clicked in the driver box. I have gone through and run the ASIO setup program that was recommended in the setup instructions. Is it time to abandon this soundcard and get another?
I did take your advice last night and go with G0BBL's connection diagram. My keyer grounds the keyline, so I built his one PNP transistor addition to the keying circuit in between RTS and CTS. The choices I have made in Options, Transceiver under the Ports section is:
COM Port COM1
Hand key or dah CTS
Dit DSR
PTT In CTS
Com high RTS
PTT to TX DTR

I did for the heck of it connect a dummy load to the RF port of the Softrock and key the radio just to see what would happen, knowing that I have not yet calibrated the transmitter so I have no power out. It did make the very bottom bar of the KGKSDR screen turn red when the CW paddles were pressed! So now I know that the keying circuit works.

Chris

1181. Re: IQ data files

Yahoo group: kgksdr
Date: 2008-01-01 00:41:39 UTC
From: jr6muf_2007
Topic: 1156 Message: 1181

A Happy New Year,Dear Norman and all

Thanks for the kind reply.
It is helpful for me.

Because I renamed the file,before replaying this file.
I didn't read the another coments about uTorrent,so
I had to re-downloaded the same file.I am sorry for that.
For a several days ,I will activate uTorrent,when I use PC.
I also changed the port security,and now maybe it helps someone
download the I/Q file.

Cu agn 73

Hiro/JR6MUF

****

> Hiro san,
> Details of the recording are as follows:
> 1. Centre frequency is 7055.75 kHz
> 2. Receiver is Softrock V6.0 for 40/80m (Rx only - not Tx/RX).
> 3. Antenna is Butternut HF9-V vertical. Ground mounted with about
40
> radials.
> 4. Noise level here with the antenna disconnected is about -
130dBm.
> Connecting the antenna on a quiet band raises the level by about
5dBm. A
> figure of -120dBm would be about right for a very active contest.
>
> Recordings made at my QTH - LOC: IO68ve.
>
> 73
>
> Norman - GM4KGK
>

1182. Re: [kgksdr] Soundcard setup question and problem with KGKSDR not responding at certain times

Yahoo group: kgksdr
Date: 2008-01-01 01:43:23 UTC
From: k5nwa
Topic: 1178 Message: 1182

At 11:24 AM 12/31/2007, you wrote:

>Hi,
>
>OK now I have run into two issues. Here is the background on the
>system:
>
>I have an internal Soundblaster Live that came with the PC, which is
>a

A SB Live card is a 16 bit card, A SB Live 24 is a 24 bit 96KHz
sampling card, quite a difference between the two.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1183. Re: Soundcard setup question and problem with KGKSDR not responding at certain times

Yahoo group: kgksdr
Date: 2008-01-01 02:59:46 UTC
From: kd4pbj
Topic: 1178 Message: 1183

Hi Cecil,

Would I be better going out and getting Soundblaster Live 24 bit external soundcard? I see that the Tiger Direct store nearby has them in stock for under $50 and I can go Wednesday night and pick it up. I am assuming that this will give much better performance than the stock 16 bit card that Dell supplied.

I read that the SB Live 24 card is bad in its supplied configuration but can be configured for SDR use and then it has stellar performance. I would rather have a Delta 44 but right now $50 is better for my wallet than $130.

Is the performance of the enhanced SB card that much worse than a Delta 44?
Worse case is that I sell off an old Hammarlund tube ham transceiver I have on eham and get the money for the Delta 44!!

Chris

1184. RE: [kgksdr] Serial Interface with VXO

Yahoo group: kgksdr
Date: 2008-01-02 12:45:26 UTC
From: Jonsson, Ulf J UTRC
Topic: 1171 Message: 1184
Attachments: 1 described; binary payloads are missing from this source WARC

No problems.

It will work fine with the push button approach on the VXO for now.

Ulf

From: kgksdr@yahoogroups.com on behalf of Duncan Munro
Sent: Mon 12/31/2007 6:08 AM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Serial Interface with VXO

thetribologist wrote:
> Duncan,
>
> Have you had any thoughts on the possibility of having the software
> send some characters on the serial port when a new center frequency
> is selected? I got my Si570 VXO chip and I am playing with the micro
> controller that will drive it. For now I am going to set a number of
> fixed frequencies and select them using buttons but it would be neat
> to have it tied to the serial port and let M0KGK do the switching.

Hi Ulf, my priority at this time is to remove ASIO as this makes the
software unusable for some ops. There will be a serial port output and
probably along the lines of copying Icom/Kenwood/etc. CAT control but I
don't know when this will be available.

73

Duncan
M0KGK

1185. RE: [kgksdr] Serial Interface with VXO

Yahoo group: kgksdr
Date: 2008-01-02 13:01:02 UTC
From: Jonsson, Ulf J UTRC
Topic: 1171 Message: 1185
Attachments: 1 described; binary payloads are missing from this source WARC

I'm using a picaxe 28X1. I never in my life experiences such a simple device to use. I have a TS430 kit (that $15 usb package) but by using the picaxe it is much easier for others to build upon it.

Ulf

From: kgksdr@yahoogroups.com on behalf of k5nwa
Sent: Mon 12/31/2007 11:10 AM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Serial Interface with VXO

At 02:29 AM 12/31/2007, you wrote:

>Duncan,
>
>Have you had any thoughts on the possibility of having the software
>send some characters on the serial port when a new center frequency
>is selected? I got my Si570 VXO chip and I am playing with the micro
>controller that will drive it. For now I am going to set a number of
>fixed frequencies and select them using buttons but it would be neat
>to have it tied to the serial port and let M0KGK do the switching.
>
>Ulf
>K1ULF

What I would love to see is for Duncan, Alberto, and Alex to get
together and agree to use something like the Flex Kenwood protocol so
that all four major software packages talk the same way. The
protocols are published and are not complicated. This would also
allow these respective softwares to be controlled by external logging software.

Out of curiosity what CPU will you be using in your controller. I
still have not made up my mind which one to use for the first cut,
but I'm leaning towards a AVR ATMega168 with a PIC18F2550 as a second
choice, it has built in USB. I usually like to use the MSP430 family
but I want to do something a little different.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1186. Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2008-01-02 15:51:47 UTC
From: Des
Topic: 1152 Message: 1186

Hi again Duncan and the group,

Just to let you know I did some testing using a crystal controlled "comb" generator with a view to speeding up auto calibration process as described in my previous postings.

I used a modified crystal calibration circuit from taken from an old ARRL handbook, built on bread board the circuit used a 100 kHz xtal followed by a divide by 2 and then a divide by 10 to give 5 kHz O/P pulses. The O/P was fed through a simple variable attenuator to ensure the signals did not "swamp" the 40 Mtr Softrock.

It did indeed produce the desired "comb" but also a host of unwanted products Hi. The additional "spikes" made it difficult set the optmum frequency. The attempt was a little "half hearted" and perhaps I should have built the circuit over a ground plane and placed it in a screened box.

To cut a long story short I reverted to my FT707,s transverter O/P to produce a 40 Mtr carrier signal and used the KGKSDR's "Set manual calibration point" option, in less than half an hour I had 20 manual cal' points with typically 80dBm of signal-to-image ratio.

Conclusion:
It would appear to be much easier to set up a signal source and perform the calibration manualy and forget the comb generator :-)
Still an interesting and worthwhile excercise as I now feel more comfortable using KGKSDR's manual cal' option. I have also saved the calibration maps in case I ever have cause to re-format the PC h/disk in the future.

BTW Would it be worth adding a "Back-up Calibration Data" option in a future version of KGKSDR?

73,s to all.

Des (M0AYF)

1187. Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2008-01-02 20:33:41 UTC
From: Dave
Topic: 1016 Message: 1187

I have some new info related to the fixed time offset I see between the sound interfaces' left and right channels in my laptop. I was playing with Alberto's new version of Winrad which seems to play nicely with Vista and this laptop's sound interface. With it I found that I can select a 192K sample rate (although the audio bandwidth seems to be limited to about 96K). At 192K, a configuring it for a one-sample offset delay gets the job done. So it seems that the hardware is sampling at 192K, but when a 96K or 48K sample rate is selected the hardware is just returning every other or every fourth sample, maintaining the one-sample-at-192K discrepancy.

Unfortunately, running KGKSDR on this laptop at 192K may be a bit too much for it, so even after you come out with a version that gets rid of ASIO, I still may not be able to use it in this configuration. I'm probably going to have to break down and get an external audio interface.

Dave, WA3OFF

1188. Multimedis Erroe#11 ??

Yahoo group: kgksdr
Date: 2008-01-03 14:15:18 UTC
From: n3hkn
Topic: 1188 Message: 1188

Receiving Multimedia Error#11 after entering my audio parameters on the second hardware tab. I had to resort to the on-board audio after my SB Live 24 began to produce digital noise artifacts at all times. The on-board is an ASRock Dual VSTA 775 mother-board. The audio is Realtek "Hi Definition" set to 96khz.

The program function normally until I enter parameters on the hardware2 tab (single sound card).

Dick N3HKN

1189. Re: Multimedis Erroe#11 ??

Yahoo group: kgksdr
Date: 2008-01-04 14:54:39 UTC
From: n3hkn
Topic: 1188 Message: 1189

Sorry for the subject typos...

Well, I wanted to stop the Multimedia error messages. So I unchecked the Single Card option on Hardware2. For no good reason I tried the Tune and it worked. Loaded WINPSKse and it worked, plus no more Multimedia errors. I really do have a single card and it is the on-board sound.

My problem now is that the best I can get, from PSK, is 250mw or single tone 500mw. With the now defunct SB Live 24 card I had the full 1 watt+ a some. Need to see if there is some mod to the RXTX 1.1 Softrock that will give me higher xmit audio drive.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> Receiving Multimedia Error#11 after entering my audio parameters on
> the second hardware tab. I had to resort to the on-board audio after
> my SB Live 24 began to produce digital noise artifacts at all times.
> The on-board is an ASRock Dual VSTA 775 mother-board. The audio is
> Realtek "Hi Definition" set to 96khz.
>
> The program function normally until I enter parameters on the
> hardware2 tab (single sound card).
>
> Dick N3HKN
>

1190. Re: [kgksdr] Re: Multimedis Erroe#11 ??

Yahoo group: kgksdr
Date: 2008-01-04 15:44:23 UTC
From: Duncan Munro
Topic: 1188 Message: 1190

n3hkn wrote:
> Sorry for the subject typos...
>
> Well, I wanted to stop the Multimedia error messages. So I unchecked
> the Single Card option on Hardware2. For no good reason I tried the
> Tune and it worked. Loaded WINPSKse and it worked, plus no more
> Multimedia errors. I really do have a single card and it is the
> on-board sound.

Hi Dick, I did a decode on multimedia error 11 and it means invalid parameter. If you want to experiment a little more, try unchecking the bits that change the mixer device functions as I'm sure I've seen mm error 11 around these before - it might narrow it down for us a bit?

> My problem now is that the best I can get, from PSK, is 250mw or
> single tone 500mw. With the now defunct SB Live 24 card I had the full
> 1 watt+ a some. Need to see if there is some mod to the RXTX 1.1
> Softrock that will give me higher xmit audio drive.

Is there a mixer control which sets line out level? Just thinking it might be worth hunting for this and then hack the hardware as a last resort.

73,

Duncan
M0KGK

1191. Re: [kgksdr] Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2008-01-04 15:52:08 UTC
From: Duncan Munro
Topic: 1016 Message: 1191

Dave wrote:

> [...] So it seems that the
> hardware is sampling at 192K, but when a 96K or 48K sample rate is
> selected the hardware is just returning every other or every fourth
> sample, maintaining the one-sample-at-192K discrepancy.

Hi Dave, this doesn't sound like good news. It might be possible to get a quarter sample or half sample delay if I can talk to some DSP gurus, but I would be a lot happier if the sound card manufacturers clocked both ADCs at the same time.

> Unfortunately, running KGKSDR on this laptop at 192K may be a bit too
> much for it, so even after you come out with a version that gets rid
> of ASIO, I still may not be able to use it in this configuration.
> I'm probably going to have to break down and get an external audio
> interface.

OK on all that, my only concern is that 96k is approx 4 times the 'horsepower' requirement of 48k and going from 96k to 192k will be another big jump. I haven't tried 192 yet but I'm fairly confident that the hardware here (AMD3500 and AMD3600) will have issues with it...

73,

Duncan
M0KGK

1192. Re: [kgksdr] Re: Auto correction of I/Q amplitude/phase.

Yahoo group: kgksdr
Date: 2008-01-04 15:53:19 UTC
From: Duncan Munro
Topic: 1152 Message: 1192

Des wrote:

> Conclusion:
> It would appear to be much easier to set up a signal source and
> perform the calibration manualy and forget the comb generator :-)

Hi Des,

Manual is very much my favoured method, simply because I'm impatient!
It was a good move to try your generator though, experimentation is what
this is all about.

73,

Duncan
M0KGK

1193. Re: Multimedis Erroe#11 ??

Yahoo group: kgksdr
Date: 2008-01-04 18:22:00 UTC
From: n3hkn
Topic: 1188 Message: 1193

Found my low outout problem. The normal Amateur Radio problem - proken
wirw - ANT coax shield disconnected.

I do not understand why my motherboard sound setup works when the
Single Card box is not checked?

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > Sorry for the subject typos...
> >
> > Well, I wanted to stop the Multimedia error messages. So I unchecked
> > the Single Card option on Hardware2. For no good reason I tried the
> > Tune and it worked. Loaded WINPSKse and it worked, plus no more
> > Multimedia errors. I really do have a single card and it is the
> > on-board sound.
>
> Hi Dick, I did a decode on multimedia error 11 and it means invalid
> parameter. If you want to experiment a little more, try unchecking the
> bits that change the mixer device functions as I'm sure I've seen mm
> error 11 around these before - it might narrow it down for us a bit?
>
> > My problem now is that the best I can get, from PSK, is 250mw or
> > single tone 500mw. With the now defunct SB Live 24 card I had the full
> > 1 watt+ a some. Need to see if there is some mod to the RXTX 1.1
> > Softrock that will give me higher xmit audio drive.
>
> Is there a mixer control which sets line out level? Just thinking it
> might be worth hunting for this and then hack the hardware as a last
resort.
>
> 73,
>
> Duncan
> M0KGK
>

1194. Re: HB9TLK Loop.dll, and PSKcore.dll

Yahoo group: kgksdr
Date: 2008-01-04 20:04:07 UTC
From: n3hkn
Topic: 1136 Message: 1194

I have Zakana working with no mods....

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> w7rjc wrote:
> > Hi Philip & Duncan .. I am wondering if the HB9TLK Loop.dll and the
> > PSKcore.dll will work with digipan? I know it works with winpsk but I
> > would like to use KGKsdr with digipan. Thanks for your help.Ray W7RJC
>
> Hi Ray, I don't believe it will unless digipan itself is modified to
> work with loop.dll
>
> When I get round to moving the sound interface from ASIO to the normal
> Windows drivers, it should be possible to use a third party app like
VAC
> to interface to Digipan, MixW, etc.
>
> 73,
>
> Duncan
> M0KGK
>

1195. Re: Serial Interface with VXO

Yahoo group: kgksdr
Date: 2008-01-05 14:01:57 UTC
From: sv1eia
Topic: 1171 Message: 1195

Excellent idea.
I already use KGK with Softrock80m RxTx and a DDS34. For this I control the frequency from JA7TDO's external application which complicates things.
I would love to see a combination of this group -> http://groups.yahoo.com/group/dds_controller/ where already a usb pic is controlling dds vfos and kgksdr.

I think this is a nice approach since some source code is ready there and waiting!

73
Christos
SV1EIA

--- In kgksdr@yahoogroups.com, "Jonsson, Ulf J UTRC" <jonssouj@...> wrote:
>
> I'm using a picaxe 28X1. I never in my life experiences such a simple device to use. I have a TS430 kit (that $15 usb package) but by using the picaxe it is much easier for others to build upon it.
>
> Ulf
>
> _____
>
> From: kgksdr@yahoogroups.com on behalf of k5nwa
> Sent: Mon 12/31/2007 11:10 AM
> To: kgksdr@yahoogroups.com
> Subject: Re: [kgksdr] Serial Interface with VXO
>
>
>
> At 02:29 AM 12/31/2007, you wrote:
>
> >Duncan,
> >
> >Have you had any thoughts on the possibility of having the software
> >send some characters on the serial port when a new center frequency
> >is selected? I got my Si570 VXO chip and I am playing with the micro
> >controller that will drive it. For now I am going to set a number of
> >fixed frequencies and select them using buttons but it would be neat
> >to have it tied to the serial port and let M0KGK do the switching.
> >
> >Ulf
> >K1ULF

>
> What I would love to see is for Duncan, Alberto, and Alex to get
> together and agree to use something like the Flex Kenwood protocol so
> that all four major software packages talk the same way. The
> protocols are published and are not complicated. This would also
> allow these respective softwares to be controlled by external
logging software.
>
> Out of curiosity what CPU will you be using in your controller. I
> still have not made up my mind which one to use for the first cut,
> but I'm leaning towards a AVR ATMega168 with a PIC18F2550 as a second
> choice, it has built in USB. I usually like to use the MSP430 family
> but I want to do something a little different.
>
> Cecil
> K5NWA
> www.softrockradio.org www.qrpradio.com
>
> "Blessed are the cracked, for they shall let in the light."
>

1196. Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-07 06:19:28 UTC
From: Janne Pulkkinen
Topic: 1150 Message: 1196

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
> Hi!
>
> I was about to test my finished homebrew SDR transceiver yesterday
> with KGKSDR, but it gave the "error has occured and that it must be
> shut down" (the one that is quite common in XP). It works OK at RX. I
> already reinstalled (and re-downloaded the installer) and emptied the
> "data" folder, but no help.
>
> POWERSDR runs ok, but I hate the fact that it doesn't have the 1
> sample delay possibility, so I can get the image rejection corrected
> in that one and I like the KGKSDR's visuality and easiness more :)
>
> I tried to find similar problems by looking older subjects but
> couldn't find one.
>
> Equipment:
> AMD Athlong 3200+/64-bit (using 32) with 1G memory. E-MU 0404 PCI ASIO
> soundcard
>
> 73 de Janne, OH1GTF
>

Seriously, no one has had this same problem? Or even an idea about
the problem?

I would be more than happy to get this software to run my HW, since
at the moment, there is no other SW with TX/RX and 1 sample soundcard
delay .

73 de Janne, OH1GTF

1197. Re: Auto-calibration range

Yahoo group: kgksdr
Date: 2008-01-07 16:37:36 UTC
From: Dave
Topic: 1016 Message: 1197

> It might be possible to get a quarter sample or half sample delay
> if I can talk to some DSP gurus, but I would be a lot happier if
> the sound card manufacturers clocked both ADCs at the same time.

Probably a mattery of being a cheap implementation (either hardware or testing effort) since most applications will not notice. Anyway I went out and got a SB Live! 24 External and no longer have to deal with the offset. Of course, that has now introduced a new issue. ASIO4ALL recognizes the new sound interface but doesn't seem to deal with it properly. I can output to it (sort of), but KGKSDR doesn't seem to receive anything on I and Q from it. In fact, just having that interface enabled in ASIO4ALL is enough to upset operation using the on-board sound. I'll be waiting for your implementation that eliminates the need for ASIO. (The older KGKSDR 1.0 Rx-only seems happy with it.)

> my only concern is that 96k is approx 4 times the 'horsepower'
> requirement of 48k and going from 96k to 192k will be another big
> jump.

Interesting. So the DSP processing effort is roughly proportional to the square of the sample rate? I guess I could use that to estimate what proportion of the CPU usage is going toward DSP processing. If I see roughly a doubling of CPU usage when I switch from 48K to 96K, that would suggest that at 48K the DSP is 1/3 of the processing and at 96K it's 2/3. I suppose though that there are some portions of the processing that are proportional to the sample rate (reading and buffering the samples, for example) so I've probably oversimplified it. I'll have to compare more rates.

Dave

1198. Re: [kgksdr] Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-07 20:31:23 UTC
From: Duncan Munro
Topic: 1150 Message: 1198

Janne Pulkkinen wrote:
> --- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>> Hi!
>>
>> I was about to test my finished homebrew SDR transceiver yesterday
>> with KGKSDR, but it gave the "error has occured and that it must be
>> shut down" (the one that is quite common in XP). It works OK at RX. I
>> already reinstalled (and re-downloaded the installer) and emptied the
>> "data" folder, but no help.

Hi Janne,

I don't think you should be getting regular errors in XP, it's normally
very robust. Can you get hold of a screen dump of the error? That
might narrow things down.

73,

Duncan
M0KGK

1199. RE: [kgksdr] Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-07 20:45:33 UTC
From: Jonsson, Ulf J UTRC
Topic: 1150 Message: 1199

I got the same for a while. i relate it to me messing around with sound card settings in Skype.

After mucking around with the sound card control panel it went away.

I'm using a SB 24 live PCI and a built in DELL something.

Ulf

From: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] On Behalf Of Duncan Munro
Sent: Monday, January 07, 2008 3:31 PM
To: kgksdr@yahoogroups.com
Subject: Re: [kgksdr] Re: When transmitting with KGKSDR I get the error that program must be shut down

Janne Pulkkinen wrote:
> --- In kgksdr@yahoogroups.com <mailto:kgksdr%40yahoogroups.com> , "Janne Pulkkinen" <iami78@...> wrote:
>> Hi!
>>
>> I was about to test my finished homebrew SDR transceiver yesterday
>> with KGKSDR, but it gave the "error has occured and that it must be
>> shut down" (the one that is quite common in XP). It works OK at RX. I
>> already reinstalled (and re-downloaded the installer) and emptied the
>> "data" folder, but no help.

Hi Janne,

I don't think you should be getting regular errors in XP, it's normally
very robust. Can you get hold of a screen dump of the error? That
might narrow things down.

73,

Duncan
M0KGK

1200. Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-09 05:52:17 UTC
From: Janne Pulkkinen
Topic: 1150 Message: 1200

```
>
> Hi Janne,
>
> I don't think you should be getting regular errors in XP, it's normally
> very robust. Can you get hold of a screen dump of the error? That
> might narrow things down.
>
> 73,
>
> Duncan
> M0KGK
>
```

Hi Duncan,

I managed to grab few screen shots:

This is the error that happens when trying to TX.

http://www.saunalahti.fi/johku76/pic/error.jpg

And clicking the "To see what data this error report contains" -link:

http://www.saunalahti.fi/johku76/pic/error2.jpg

Can I do something else to clarify the problem?

73 de Janne, OH1GTF

1201. Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-09 05:56:17 UTC
From: Janne Pulkkinen
Topic: 1150 Message: 1201

--- In kgksdr@yahoogroups.com, "Jonsson, Ulf J UTRC"
<jonssouj@...> wrote:
>
> I got the same for a while. i relate it to me messing around with sound
> card settings in Skype.
>
> After mucking around with the sound card control panel it went away.
>
> I'm using a SB 24 live PCI and a built in DELL something.
>
> Ulf
>
Thanks Ulf,

Well, I really don't think this has anything to do with sound card
setup. I have managed to use my HW with other softwares (PowerSDR) and
I'm quite familiar with the software controller of my sound card. I've
re and rechecked the routings but everything seems to be ok.

But thanks for the idea!

73 de Janne, OH1GTF

1202. PSK Levels - Softrock RXTX 1.1

Yahoo group: kgksdr
Date: 2008-01-09 14:49:07 UTC
From: n3hkn
Topic: 1202 Message: 1202

I am using the Softrock RXTX with an amplifier. In DATA mode the most I can get is 30 watts with WINPSKse in Tune mode. However, using the Tune mode in KGKSDR I can get 90 watts. If I use USB with PSK I can get 60 watts with WINPSKse in tune mode. The problem using USB mode is that the MIC slider blinks yellow and then red very soon in its upward travel. I have no color blinking in the DATA mode.

Just looks like the level relationships are off somewhat. Also, should the GAIN slider in Data mode actually blink in color if set too high?

Regards,
Dick N3HKN

1203. Re: [kgksdr] PSK Levels - Softrock RXTX 1.1

Yahoo group: kgksdr
Date: 2008-01-09 15:21:40 UTC
From: Jose Amador
Topic: 1202 Message: 1203

Did you observe the RF envelope with an oscilloscope?

Meters generally show AVERAGE power.

73,

Jose, CO2JA

n3hkn escribi?:
> I am using the Softrock RXTX with an amplifier. In DATA mode the most
> I can get is 30 watts with WINPSKse in Tune mode. However, using the
> Tune mode in KGKSDR I can get 90 watts. If I use USB with PSK I can
> get 60 watts with WINPSKse in tune mode. The problem using USB mode is
> that the MIC slider blinks yellow and then red very soon in its upward
> travel. I have no color blinking in the DATA mode.
>
> Just looks like the level relationships are off somewhat. Also, should
> the GAIN slider in Data mode actually blink in color if set too high?
>
> Regards,
> Dick N3HKN
>
>

Participe en Universidad 2008.
11 al 15 de febrero del 2008.
Palacio de las Convenciones, Ciudad de la Habana, Cuba
http://www.universidad2008.cu

1204. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2008-01-09 15:47:45 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 1204

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /loop.zip
Uploaded by : n3hkn <n3hkn@...>
Description : HB9TLK loop.dll

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/loop.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

n3hkn <n3hkn@...>

1205. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2008-01-09 15:48:37 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 1205

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /PSKCore.zip
Uploaded by : n3hkn <n3hkn@...>
Description : HB9TLK pskcore.dll

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/PSKCore.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

n3hkn <n3hkn@...>

1206. Re: PSK Levels - Softrock RXTX 1.1

Yahoo group: kgksdr
Date: 2008-01-09 17:10:27 UTC
From: n3hkn
Topic: 1202 Message: 1206

The differences were relative to average power when using WINPSKse in
PSK mode and peak power when using WINPSKse in Tune mode.

Regards,
Dick N3HKN

--- In kgksdr@yahoogroups.com, Jose Amador <amador@...> wrote:
>
>
> Did you observe the RF envelope with an oscilloscope?
>
> Meters generally show AVERAGE power.
>
> 73,
>
> Jose, CO2JA
>
> n3hkn escribió:
> > I am using the Softrock RXTX with an amplifier. In DATA mode the most
> > I can get is 30 watts with WINPSKse in Tune mode. However, using the
> > Tune mode in KGKSDR I can get 90 watts. If I use USB with PSK I can
> > get 60 watts with WINPSKse in tune mode. The problem using USB mode is
> > that the MIC slider blinks yellow and then red very soon in its upward
> > travel. I have no color blinking in the DATA mode.
> >
> > Just looks like the level relationships are off somewhat. Also, should
> > the GAIN slider in Data mode actually blink in color if set too high?
> >
> > Regards,
> > Dick N3HKN
> >
> >
>
>
> ----------
>
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> Palacio de las Convenciones, Ciudad de la Habana, Cuba
> http://www.universidad2008.cu
>

1207. Warbler with KGKSDR 1.1 & Softrock RXTX

Yahoo group: kgksdr
Date: 2008-01-09 17:13:56 UTC
From: n3hkn
Topic: 1207 Message: 1207

I have been able to use Warbler successfully with KGKSDR and the Softrock RXTX transceiver. The trick is that the base version 4.50 does not change the PSKCORE.dll but subsequent updates do. So after applying an update reload the special PSKCORE.dll .

I have no tried al of the other elements of the suite.

Dick N3HKN

1208. Re: When transmitting with KGKSDR I get the error that program must be shut down

Yahoo group: kgksdr
Date: 2008-01-11 22:07:42 UTC
From: Janne Pulkkinen
Topic: 1150 Message: 1208

Problem is solved!

I manually went through all the registration data with regedit and reinstalled the software and voilá, it works!

73 de Janne OH1GTF

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
> Hi!
>
> I was about to test my finished homebrew SDR transceiver yesterday
> with KGKSDR, but it gave the "error has occured and that it must be
> shut down" (the one that is quite common in XP). It works OK at RX. I
> already reinstalled (and re-downloaded the installer) and emptied the
> "data" folder, but no help.
>
> POWERSDR runs ok, but I hate the fact that it doesn't have the 1
> sample delay possibility, so I can get the image rejection corrected
> in that one and I like the KGKSDR's visuality and easiness more :)
>
> I tried to find similar problems by looking older subjects but
> couldn't find one.
>
> Equipment:
> AMD Athlong 3200+/64-bit (using 32) with 1G memory. E-MU 0404 PCI ASIO
> soundcard
>
> 73 de Janne, OH1GTF
>

1209. Memories For Specific Frequencies

Yahoo group: kgksdr
Date: 2008-01-14 12:00:31 UTC
From: n3hkn
Topic: 1209 Message: 1209

This has probably been requested before but this is my 2 cents/pence. The nicest change for many would be the ability to eliminate ASIO. Although KGKSDR is working very well with it. A very minor addition might be adding a click spot to bring up a small number of memory slots. I would like one to store my PSK data mode/frequency. It would save me "several seconds" each time I use KGKSDR. Obviously not a significant need.

After many months away from Ham radio I have my 40M Softrock 6.1 RXTX running into a small 30 watt amplifier feeding a GAP vertical. I have been able to sustain a PSK conversation with the RXTX alone at 1 watt also. The odd thing is that with about a dozen contacts only one showed any interest in SDRs.

Thanks for a fine program.

Regards,
Dick N3HKN

1210. Vista Errors

Yahoo group: kgksdr
Date: 2008-01-14 18:24:48 UTC
From: sv1eia
Topic: 1210 Message: 1210

Hi,

Quite unfortunately I had to move to vista recently.

I use KGK as it is the only one that can use my soundcards for tx.

Two symptoms

1. Tx calibration is not stored. Calibrating is ok and transmitted signal is superb. But when I restart KGK, it has lost the previous calibration settings.

2. On exit everytime I get the message on a window titled "M0KGK SDR 0%" displaying "Access violation at address 00000000. Read of address 00000000.".

Any guess?

73
Christos
SV1EIA

1211. No sidetone when transmitting

Yahoo group: kgksdr
Date: 2008-01-21 16:31:01 UTC
From: mglxxx
Topic: 1211 Message: 1211

Hi group,

I think this is an FAQ, but I couldn't find an answer for
this one.

I am running a softrock RXTX 6.2 with an Edirol FA-66. I have
configured kgksdr to use different channels for I/Q-output, I/Q-input,
and audio output. However, I do not get a sidetone when transmitting
CW. Any idea what I could have overlooked? Apart from the missing
sidetone RX and TX is working fine -- I am currently using a
spare receiver as monitor.

Btw.: thank you, Duncan, for a great piece of software.

Cheers,

Marcus Geselle -- dl7gem

1212. Re: [kgksdr] No sidetone when transmitting

Yahoo group: kgksdr
Date: 2008-01-21 16:46:49 UTC
From: Duncan Munro
Topic: 1211 Message: 1212

mglxxx wrote:
> Hi group,
>
> I think this is an FAQ, but I couldn't find an answer for
> this one.
>
> I am running a softrock RXTX 6.2 with an Edirol FA-66. I have
> configured kgksdr to use different channels for I/Q-output, I/Q-input,
> and audio output. However, I do not get a sidetone when transmitting
> CW. Any idea what I could have overlooked? Apart from the missing
> sidetone RX and TX is working fine -- I am currently using a
> spare receiver as monitor.
>
> Btw.: thank you, Duncan, for a great piece of software.

Hi Marcus,

If you go to Options -> Transceiver -> General -> CW Options

There is a box there 'CW Monitor Style'. If this is set to TX Monitor
you will get a sidetone. The slider below the box sets the volume.

73,

Duncan
M0KGK

1213. Re: No sidetone when transmitting

Yahoo group: kgksdr
Date: 2008-01-22 08:17:04 UTC
From: mglxxx
Topic: 1211 Message: 1213

Hi Duncan,

thank you for the quick response. That did the trick.

Cheers,
Marcus -- dl7gem

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
> Hi Marcus,
>
> If you go to Options -> Transceiver -> General -> CW Options
>
> There is a box there 'CW Monitor Style'. If this is set to TX Monitor
> you will get a sidetone. The slider below the box sets the volume.
>
> 73,
>
> Duncan
> M0KGK
>

1214. No Serial Port

Yahoo group: kgksdr
Date: 2008-01-25 00:19:11 UTC
From: g4rqj
Topic: 1214 Message: 1214

Is it possible to use any other port for tx operation? Just found that my laptop has no serial port,just parallel and usb. Rx side is working great. Excuse the ignorance
Rob
G4RQJ

1215. Re: [kgksdr] No Serial Port

Yahoo group: kgksdr
Date: 2008-01-25 01:29:02 UTC
From: Milt Cram
Topic: 1214 Message: 1215

g4rqj wrote:
> Is it possible to use any other port for tx operation? Just found that
> my laptop has no serial port,just parallel and usb. Rx side is working
> great. Excuse the ignorance
> Rob
> G4RQJ
>
>
>
>
Rob,

There are numerous USB to Serial adapters on the market (e.g. Airlink 101). These will connect to the USB port and, when the driver is installed, will appear as a com port. You might have to download the latest driver from the manufacturers web site.

Milt
W8NUE

1216. Re: No Serial Port

Yahoo group: kgksdr
Date: 2008-01-25 10:48:08 UTC
From: g4rqj
Topic: 1214 Message: 1216

Thanks for that Milt, I was not sure if the program would see the usb port but I guess the driver sorts that out. I never thought of that (just old age I guess) Thanks again
73
Rob
G4RQJ
--- In kgksdr@yahoogroups.com, Milt Cram <w8nue@...> wrote:
>
> g4rqj wrote:
> > Is it possible to use any other port for tx operation? Just found that
> > my laptop has no serial port,just parallel and usb. Rx side is working
> > great. Excuse the ignorance
> > Rob
> > G4RQJ
> >
> >
> >
> >
> Rob,
>
> There are numerous USB to Serial adapters on the market (e.g. Airlink
> 101). These will connect to the USB port and, when the driver is
> installed, will appear as a com port. You might have to download the
> latest driver from the manufacturers web site.
>
> Milt
> W8NUE
>

1217. S-Meter Reading??

Yahoo group: kgksdr
Date: 2008-01-25 13:53:55 UTC
From: n3hkn
Topic: 1217 Message: 1217

The S-meter reading seems related to the bandwidth selected. Thus a signal of low strength is strongly influenced by the bandwidth of the filter. Moderately strong signals suffer less and maintain a similar S-meter reading with different filter settings. It appears that the readings are more power related than voltage.

Would it be possible to, as an option, measure the peak or average voltage of the signal? This may offer a more consistent relationship between filters and signal strengths.

Using my Softrock RXTX at 800mw PSK and making contacts. Even had some probable converts to KGKSDR and Softrocks.

Dick N3HKN

1218. Re: [kgksdr] Re: No Serial Port

Yahoo group: kgksdr
Date: 2008-01-25 13:57:12 UTC
From: Duncan Munro
Topic: 1214 Message: 1218

g4rqj wrote:
> Thanks for that Milt, I was not sure if the program would see the usb
> port but I guess the driver sorts that out. I never thought of that
> (just old age I guess) Thanks again

Rob, the USB ports work well. Both my machines here use USB serial
ports (on something like COM13 or COM14).

If you're looking for a source, ebay is a good place to pick them up.

73,

Duncan
M0KGK

1219. Re: [kgksdr] S-Meter Reading??

Yahoo group: kgksdr
Date: 2008-01-25 14:52:33 UTC
From: Duncan Munro
Topic: 1217 Message: 1219

n3hkn wrote:
> The S-meter reading seems related to the bandwidth selected. Thus a
> signal of low strength is strongly influenced by the bandwidth of the
> filter. Moderately strong signals suffer less and maintain a similar
> S-meter reading with different filter settings. It appears that the
> readings are more power related than voltage.
>
> Would it be possible to, as an option, measure the peak or average
> voltage of the signal? This may offer a more consistent relationship
> between filters and signal strengths.

Hi Dick, both those options are already in. The S meter reads a peak value in an identical manner to the equivalent analogue paradigm. The dBm meter uses RMS power measurements.

If you try an analogue receiver with adjustable bandwidth, you should experience a similar effect on the readings to those you note above. Weak CW signals are particularly affected, as the residual noise contributes significantly to the overall signal level - reducing the bandwidth will reduce this noise.

73,

Duncan
M0KGK

1220. "Invalid floating point operation" when calibrating TX image. Only integers work

Yahoo group: kgksdr
Date: 2008-01-29 10:08:41 UTC
From: Janne Pulkkinen
Topic: 1220 Message: 1220

I'm trying to calibrate the TX image. I can null out the image perfectly, but there is a problem with saving those values or something related to that. Also when I have calibrated the spot frequency and have saved the values, nothing appears on the amplitude and phase charts. I suppose there should appear some calibration lines?

What I've done so far to get rid off this problem:

- I've deleted the whole inner of KGKSDR application data folder every time I have get the "invalid floating point operation" -error.
- I've tried to calibrate only a single spot frequency
- I've tried to calibrate several frequencies
- I've tried to calibrate only on the negative frequencies
- I've tried to calibrate only on the positive frequencies

Nothing works.

And what is interesting, is that integer calibration values can be saved!!! I mean phase and amplitude values that are really, 1, 2, 3 etc.

Due this fact, I changed the comma to dot from "regional Settings" and tried to save the calibration values, but it still doesn't work.

If there isn't enough confusion, time to time, just suddenly, I'm able to save few values, that aren't even integers.

Any ideas?

73 de Janne OH1GTF

1221. Re: "Invalid floating point operation" when calibrating TX image. Only integers

Yahoo group: kgksdr
Date: 2008-01-29 10:16:32 UTC
From: Janne Pulkkinen
Topic: 1220 Message: 1221

Just noticed that there is no calculated "Correction product" -value!

take a look:

http://www.saunalahti.fi/johku76/pic/correction.jpg

73 de Janne, OH1GTF

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
>
> I'm trying to calibrate the TX image. I can null out the image
> perfectly, but there is a problem with saving those values or
> something related to that. Also when I have calibrated the spot
> frequency and have saved the values, nothing appears on the amplitude
> and phase charts. I suppose there should appear some calibration lines?
>
> What I've done so far to get rid off this problem:
>
> - I've deleted the whole inner of KGKSDR application data folder
> every time I have get the "invalid floating point operation" -error.
> - I've tried to calibrate only a single spot frequency
> - I've tried to calibrate several frequencies
> - I've tried to calibrate only on the negative frequencies
> - I've tried to calibrate only on the positive frequencies
>
> Nothing works.
>
> And what is interesting, is that integer calibration values can be
> saved!!! I mean phase and amplitude values that are really, 1, 2, 3 etc.
>
> Due this fact, I changed the comma to dot from "regional Settings"
> and tried to save the calibration values, but it still doesn't work.
>
> If there isn't enough confusion, time to time, just suddenly, I'm
> able to save few values, that aren't even integers.
>
> Any ideas?
>
> 73 de Janne OH1GTF
>

1222. General Info-Running Zakanaka and Xmit Level/ASIO

Yahoo group: kgksdr
Date: 2008-01-29 14:42:47 UTC
From: n3hkn
Topic: 1222 Message: 1222

I tried Zakanaka and it works with KGKSDR if the new PSKCORE.DLL from the Files Section is used in place of the one that is with Zakanaka.

I am running with 2 sound cards. A Turtle Beach for input and the on-board Realtek for output. I have noticed that if the ASIO Buffer Size in the ASIO panel is set too high the level of the xmit level goes down. This is when using the PSK program to generate the signal. If TUNE is used the maximum signal is produced. However, if I set the ASIO value to 64 samples I attain a higher value than with the default 512. Nothing extraordinary, just another slider to play with.

In KGKSDR Tune mode I get about 1.9 watts from the Softrock RXTX v1.1. Using the PSK programs tune mode I get about 900mw out. The are really relative values since I have a low cost meter with a 30w scale. 13.5v DC in.

Dick N3HKN

1223. Re: [kgksdr] General Info-Running Zakanaka and Xmit Level/ASIO

Yahoo group: kgksdr
Date: 2008-01-29 14:47:19 UTC
From: Jose Bonanca
Topic: 1222 Message: 1223
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1224. Re: [kgksdr] "Invalid floating point operation" when calibrating TX image. Only integers work

Yahoo group: kgksdr
Date: 2008-01-29 17:43:43 UTC
From: Duncan Munro
Topic: 1220 Message: 1224

Janne Pulkkinen wrote:

> And what is interesting, is that integer calibration values can be
> saved!!! I mean phase and amplitude values that are really, 1, 2, 3 etc.
>
> Due this fact, I changed the comma to dot from "regional Settings"
> and tried to save the calibration values, but it still doesn't work.

Hi Janne, I think it may be something to do with regional settings if this is the problem you are getting.

Don't forget that if you change the regional settings, KGKSDR will have to be closed down completely and started again to get the new values.

KGKSDR should respect any regional settings you have on the computer, but if you're still having a problem after re-starting, please msg back to the group and I'll sort out a debug version to try and track the problem.

73,

Duncan
M0KGK

1225. Re: [kgksdr] Re: "Invalid floating point operation" when calibrating TX image. Only integers

Yahoo group: kgksdr
Date: 2008-01-29 17:45:59 UTC
From: Duncan Munro
Topic: 1220 Message: 1225

Janne Pulkkinen wrote:
> Just noticed that there is no calculated "Correction product" -value!
>
> take a look:
> http://www.saunalahti.fi/johku76/pic/correction.jpg

That is extremely strange. I'll check what's behind the display of the correction product to try and find out what's upsetting it.

73,

Duncan
M0KGK

1226. Re: General Info-Running Zakanaka and Xmit Level/ASIO

Yahoo group: kgksdr
Date: 2008-01-29 17:47:04 UTC
From: n3hkn
Topic: 1222 Message: 1226

Sorry it was/is 6.1.

N3HKN

--- In kgksdr@yahoogroups.com, "Jose Bonanca" <jbct1aos@...> wrote:
>
> In KGKSDR Tune mode I get about 1.9 watts from the Softrock RXTX v1.1
>
>
> Where did you get that sr version??
> I am a collector and never noticed that one.
>
> 73
>
> On Jan 29, 2008 2:42 PM, n3hkn <n3hkn@...> wrote:
>
> > I tried Zakanaka and it works with KGKSDR if the new PSKCORE.DLL
from
> > the Files Section is used in place of the one that is with Zakanaka.
> >
> > I am running with 2 sound cards. A Turtle Beach for input and the
> > on-board Realtek for output. I have noticed that if the ASIO Buffer
> > Size in the ASIO panel is set too high the level of the xmit level
> > goes down. This is when using the PSK program to generate the signal.
> > If TUNE is used the maximum signal is produced. However, if I set the
> > ASIO value to 64 samples I attain a higher value than with the default
> > 512. Nothing extraordinary, just another slider to play with.
> >
> > In KGKSDR Tune mode I get about 1.9 watts from the Softrock RXTX v1.1.
> > Using the PSK programs tune mode I get about 900mw out. The are really
> > relative values since I have a low cost meter with a 30w scale. 13.5v
> > DC in.
> >
> > Dick N3HKN
> >
> >
> >
>
>
>
> --
> Jose Bonanca (CT1aos)
>

1227. Re: [kgksdr] General Info-Running Zakanaka and Xmit Level/ASIO

Yahoo group: kgksdr
Date: 2008-01-29 17:47:47 UTC
From: Duncan Munro
Topic: 1222 Message: 1227

n3hkn wrote:

> ... However, if I set the
> ASIO value to 64 samples I attain a higher value than with the default
> 512. Nothing extraordinary, just another slider to play with.

Hi Dick,

Have you tried to RX the signal that's being produced with 64 samples?
It could be that the sound is breaking up and causing crackles which
inflate the power value. 64 sounds very low indeed...

73,

Duncan
M0KGK

1228. Re: "Invalid floating point operation" when calibrating TX image. Only integers

Yahoo group: kgksdr
Date: 2008-01-29 18:21:49 UTC
From: Janne Pulkkinen
Topic: 1220 Message: 1228

> > http://www.saunalahti.fi/johku76/pic/correction.jpg
>
> That is extremely strange. I'll check what's behind the display of the
> correction product to try and find out what's upsetting it.
>
> 73,
>
> Duncan
> M0KGK

Thanks for checking that Duncan!

Just tell me if you want more info or tests to me made!

I tried different settings on regional settings but couldn't
get it work.

73 de Janne, OH1GTF

1229. Re: "Invalid floating point operation" when calibrating TX image. SOLVED!!!

Yahoo group: kgksdr
Date: 2008-02-01 06:05:11 UTC
From: Janne Pulkkinen
Topic: 1220 Message: 1229

PROBLEM SOLVED!

We had a little chat with Duncan and there was two reasons why I had the "Invalid floating point operation". If you have these symptoms (you gotta have 'em all, otherwise it's probably a sign of something else):

- When trying to save the adjusted phase and amplitude values on the TX image calibration procedure, the values don't appear in the chart

- When you press OK or APPLY in the "transceiver options" you get "invalid floating point operation"

- When you start up KGKSDR you get "invalid floating point operation"

you might want to check out that the amplitude value is within reasonable range. I had around 0.4 and it's too low and the maths are going crazy.

So, Duncan pointed out that it might be something with my HW because the value is such low and yeah, it was. I had imbalance in the output of my sound card. This was fixed by modifying one channel of the QSE, to have a variable gain. Now the amplitude value is around 0.7 to a little bit over 1.

73's de Janne, OH1GTF

PS. Made my first QSO with the homebrew SDR transceiver on 20 meters yesterday. Local ham gave me 59 and said that the TX audio is awesome.

1230. balance rtx 6.1 tx image

Yahoo group: kgksdr
Date: 2008-02-06 10:51:35 UTC
From: gm3jsx
Topic: 1230 Message: 1230

I have never been able to null tx image on this rig..
Useing IQout I am not able to mute R although mute L works ok..
have checked the board and seems ok.I have also changed U2 but no
improvement..
my other 6.2 30/20 works ok with same sound card etc..
I wonder if anyone else has had the same problem.any help would be
appreciated..
73 jim gm3jsx

1231. Re: balance rtx 6.1 tx image

Yahoo group: kgksdr
Date: 2008-02-06 14:11:30 UTC
From: gm3jsx
Topic: 1230 Message: 1231

--- In kgksdr@yahoogroups.com, "gm3jsx" <gm3jsx@...> wrote:
>
> I have never been able to null tx image on this rig..
> Useing IQout I am not able to mute R although mute L works ok..
> have checked the board and seems ok.I have also changed U2 but no
> improvement..
> my other 6.2 30/20 works ok with same sound card etc..
> I wonder if anyone else has had the same problem.any help would be
> appreciated..
> 73 jim gm3jsx
>
problem now fixed,bad R9, all now as should be..
jim gm3jsx..

1232. Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-08 20:27:39 UTC
From: jewellted
Topic: 1232 Message: 1232

Hi all,
After getting my Softrock 40/80 metre 6.1 transceiver going, I recently used it for some QRSS/QRPp beacon work. Unexpectedly, the very slow speed Morse stream had spurious modulation on it for about 8 seconds repeated about every 62 seconds. The effect was to grossly distort the Morse element being transmitted at that point with unwanted sidebands spreading out for many Hertz. {We are talking about typically 3 second dots here!} It would have been the same on any other audio mode/modulation as I was running in LSB not keying the transmitter directly.
The signalling data is actually generated as a keyed audio tone (default 2,200 Hz) from a second PC running DL4YHF's Spectrum Lab - all checked and it was clean. I am running the M0KGK software to control the Softrock under Windows XP.

The cause was discovered to be the SDR PC processor (Dell, 3 GHz) periodically servicing a Wireless Network card (internal Netgear 108 Mbps PCI card).
Temporarily disabling the wireless network facility via the wireless network connection icon cures the problem - nice clean modulation/keying. The network can then be re-enabled using Control Panel, Network Connections, Enable after coming off air!
Hope no-one else has been foxed by this problem.

73 de Ted, G4ELM.

1233. Re: [kgksdr] Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-09 07:48:53 UTC
From: Alan
Topic: 1232 Message: 1233

----- Original Message -----
From: "jewellted"

> The cause was discovered to be the SDR PC processor (Dell, 3 GHz)
> periodically servicing a Wireless Network card (internal Netgear 108
> Mbps PCI card).
> Temporarily disabling the wireless network facility via the wireless
> network connection icon cures the problem - nice clean
> modulation/keying.

Have you any idea in what way the Network card affects the Softrock?
It seems to me that your "cure" is more of a work around.
Is the network card next to the sound card?
Is the RF getting in, is the soundcard being affected internally, or is it
something else?
I am asking because I think it is the first time such an effect has been
noted, this could be something that may affect other Softrock users.
If you get a chance to investigate it would be interesting to know if you
find something.
I may be an idea to mention this on the Softrock group.

73 Alan G4ZFQ

1234. Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-10 21:51:20 UTC
From: Marcus Geselle
Topic: 1232 Message: 1234

Hmm,

looks like sloppy device driver programming to me.
If the device driver for the network card
hogs the CPU for too long, no other process
will be able to get any processing time. Disabling
interrupts during execution of driver code may lead
to other devices losing interrupts.
The effect you were observing could happen with
any piece of hardware where the developer of the
device driver did not care how long the execution
times of the driver code are, as long as they do not
make the system feel unresponsive to a user.

However, the SDR stuff is pretty close to a real-time
application, so some strange effects are to be
expected on a non-realtime platform.

Just my EUR--.002

Marcus DL7GEM

1235. pdf instruction/setup info available on line??

Yahoo group: kgksdr
Date: 2008-02-12 16:20:38 UTC
From: vsias
Topic: 1235 Message: 1235

New to the group. Is there a pfd or zip file witn the instruction/setup that one can simply page thru rather than dealing with the index that comes with the KGK software package. Van, K7VS

1236. Help With The DSP of SDR

Yahoo group: kgksdr
Date: 2008-02-16 17:06:02 UTC
From: tlk2gold
Topic: 1236 Message: 1236

Hello

I am currently doing a project to build a SDR that can detect signals from five hidden transmitters. The operational bandwidth of the radio is between 3.5MHz and 3.6MHz (80m).

My problem is I do not know if an "EXTERNAL SOUNDCARD" will be suitable for the processing of the I and Q signals as oppose to using a laptop.

I am currently using the SOFTROCK-LITE v6.2 for the frontend part which will produces the I and Q signals from the RF.

Also, In terms of DIRECTION FINDING, I am hoping to use a SMALL LOOP ANTENNA on the SDR but I do not kno how to implement a sense antenna which will get rid of the 180 degrees ambiguity introduced by the SMALL LOOP ANTENNA.

Your help will bedeeply appreciated.

Bayo.

1237. Re: [kgksdr] Help With The DSP of SDR

Yahoo group: kgksdr
Date: 2008-02-16 19:08:26 UTC
From: k5nwa
Topic: 1236 Message: 1237

At 11:06 AM 2/16/2008, you wrote:

>Hello
>
>My problem is I do not know if an "EXTERNAL SOUNDCARD" will be
>suitable for the processing of the I and Q signals as oppose to using
>a laptop.
>
>Also, In terms of DIRECTION FINDING, I am hoping to use a SMALL LOOP
>ANTENNA on the SDR but I do not kno how to implement a sense antenna
>which will get rid of the 180 degrees ambiguity introduced by the
>SMALL LOOP ANTENNA.
>
>Your help will bedeeply appreciated.
>
>Bayo.

The sound card does no processing at all, it's all done by the computer, all the sound card does is convert the analog signals to digital signals in the computer.. Most laptops do not have stereo inputs which is required to reject images (signals that are really not there). I can see that this will be a lot of work, running around with a laptop and accessories is bound to be difficult.

As far as a sense antenna, that is coupled to the loop antenna, you should look it up on a ARRL book, or use Google to find exactly how to couple the two antennas, usually a transformer is involved, The whole antenna must present a resistive source to the SoftRock because it's input filter will misbehave is you have a non-resonant antenna.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1238. Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 11:57:01 UTC
From: artus1947
Topic: 1238 Message: 1238

I downloaded the most recent version but I am having installation problems. When running the setup, it makes it to the "Start Copying Files" area but gives extraction errors on both the exe and the chm files. I've tried running the extracted program but it crashes with a runtime error 216 at 0040421A. I am running XP with 3 gigs of memory on an Athlon 4400 MSI M/B. I've also tried to run the setup prog in compatibility mode but that doesn't help. Any assisstance would be appreciated. 73, Jack (W0FNQ)

1239. Re: [kgksdr] Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 16:39:54 UTC
From: Duncan Munro
Topic: 1238 Message: 1239

artus1947 wrote:
> I downloaded the most recent version but I am having installation
> problems. When running the setup, it makes it to the "Start Copying
> Files" area but gives extraction errors on both the exe and the chm
> files. I've tried running the extracted program but it crashes with a
> runtime error 216 at 0040421A. I am running XP with 3 gigs of memory
> on an Athlon 4400 MSI M/B. I've also tried to run the setup prog in
> compatibility mode but that doesn't help. Any assisstance would be
> appreciated. 73, Jack (W0FNQ)

Hi Jack,

Error 216 is a general protection fault (GPF) and there are likely one
of two reasons:

1. Your machine has a virus, or
2. An incomplete download has been made of the software

Open Windows explorer with right-click on the start button, then
explore. Navigate to where the downloaded file kgksdr11.exe lives, and
right click on it. Select properties and look at the file size which
should be 1,794,053 bytes.

If it's less than this, your download is incomplete and you will have to
try again. If you're still having problems, post back here and I'll try
and mail you a copy of it.

73,

Duncan
M0KGK

1240. Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 20:48:44 UTC
From: artus1947
Topic: 1238 Message: 1240

Duncan,

I tried downloading a couple time with the same results -- installer gives the extraction error for the exe and the chm file. The size of the downloaded file reported in the properties dialog is 1.71 MB (1,794,053 bytes). The size of the extracted exe file is 1,342,976 in the "c:\Program Files\M0KGK SDR Transceiver\" directory. I have AVG antivirus installed and up to date -- the last run was a few hours ago and no viruses reported. I am assuming that no one else is encountering a problem so must be something unique to my setup. Out of curiosity, I downloaded the 1.0.1.27 version and I encounter the same errors. This lead me to believe the problem may be with the installer routine. If you would like to try emailing me a copy of the file (artusom@...) that would be great, but I am thinking that the problem is not necessarily the download but some sort of installer incompatibility.

73,
Jack

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> artus1947 wrote:
> > I downloaded the most recent version but I am having installation
> > problems. When running the setup, it makes it to the "Start
Copying
> > Files" area but gives extraction errors on both the exe and the
chm
> > files. I've tried running the extracted program but it crashes
with a
> > runtime error 216 at 0040421A. I am running XP with 3 gigs of
memory
> > on an Athlon 4400 MSI M/B. I've also tried to run the setup prog
in
> > compatibility mode but that doesn't help. Any assisstance would
be
> > appreciated. 73, Jack (W0FNQ)
>
> Hi Jack,
>
> Error 216 is a general protection fault (GPF) and there are likely
one
> of two reasons:
>
> 1. Your machine has a virus, or
> 2. An incomplete download has been made of the software

>
> Open Windows explorer with right-click on the start button, then
> explore. Navigate to where the downloaded file kgksdr11.exe lives,
and
> right click on it. Select properties and look at the file size
which
> should be 1,794,053 bytes.
>
> If it's less than this, your download is incomplete and you will
have to
> try again. If you're still having problems, post back here and
I'll try
> and mail you a copy of it.
>
> 73,
>
> Duncan
> M0KGK
>

1241. Re: [kgksdr] Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 21:35:14 UTC
From: Duncan Munro
Topic: 1238 Message: 1241

artus1947 wrote:
> Duncan,
>
> I tried downloading a couple time with the same results -- installer
> gives the extraction error for the exe and the chm file. The size of
> the downloaded file reported in the properties dialog is 1.71 MB
> (1,794,053 bytes). The size of the extracted exe file is 1,342,976
> in the "c:\Program Files\M0KGK SDR Transceiver\" directory. I have
> AVG antivirus installed and up to date -- the last run was a few
> hours ago and no viruses reported. I am assuming that no one else is
> encountering a problem so must be something unique to my setup. Out
> of curiosity, I downloaded the 1.0.1.27 version and I encounter the
> same errors. This lead me to believe the problem may be with the
> installer routine. If you would like to try emailing me a copy of the
> file (artusom@...) that would be great, but I am thinking that
> the problem is not necessarily the download but some sort of
> installer incompatibility.

Hi Jack,

Hmmm... sending you the file by email won't help, it looks like you have
the right one there. Here's a couple of more questions off the top of
my head:

1. What OS are you using?
2. Do you have admin rights on the machine?
3. What is your temp directory?
4. Are you trying to install to C: or another drive?

If you don't know how to get answers to any of the above questions,
please shout back here and I'll run through in more detail.

73,

Duncan
M0KGK

1242. Re: [kgksdr] Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 21:36:59 UTC
From: Duncan Munro
Topic: 1238 Message: 1242

artus1947 wrote:
> Duncan,
>
> I tried downloading a couple time with the same results -- installer

Jack, pls ignore questions 1 and 4, I should have read your response in more detail before replying - apologies.

73,

Duncan
M0KGK

1243. Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 22:58:41 UTC
From: artus1947
Topic: 1238 Message: 1243

Duncan,

Yes, I have administrative rights and my temp dir, from the environmental variable listing, is "%USERPROFILE%\Local Settings\Temp" which translates to "c:\Documents and Settings\Jack.PERSONAL-B7B63D\Local Settings\". I check and the directory does exist. There's 140 gb of NTFS free space on the c: drive so that shouldn't enter into the problem.

73,
Jack

>
> 1. What OS are you using?
> 2. Do you have admin rights on the machine?
> 3. What is your temp directory?
> 4. Are you trying to install to C: or another drive?
>
> If you don't know how to get answers to any of the above questions,
> please shout back here and I'll run through in more detail.
>
> 73,
>
> Duncan
> M0KGK
>

1244. Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 23:25:14 UTC
From: artus1947
Topic: 1238 Message: 1244

Duncan,

I found the problem! I have one unique aspect to my setup -- all my internet traffic goes through a offsite proxy with firewall and other security measures. To make sure that wasn't the problem, I turned it off and redownloaded the file. Somehow going through that service modified the original file. The new download installs. Its interesting that the file size was correct. I have only had this issue with FTP services before, in which case it usually just will not connect because the port isn't open. I am sorry to have troubled you.

73,
Jack

--- In kgksdr@yahoogroups.com, "artus1947" <artus1947@...> wrote:
>
> Duncan,
>
> Yes, I have administrative rights and my temp dir, from the
> environmental variable listing, is "%USERPROFILE%\Local
Settings\Temp"
> which translates to "c:\Documents and Settings\Jack.PERSONAL-
> B7B63D\Local Settings\". I check and the directory does exist.
> There's 140 gb of NTFS free space on the c: drive so that
shouldn't
> enter into the problem.
>
> 73,
> Jack
>
>
>
> >
> > 1. What OS are you using?
> > 2. Do you have admin rights on the machine?
> > 3. What is your temp directory?
> > 4. Are you trying to install to C: or another drive?
> >
> > If you don't know how to get answers to any of the above
questions,
> > please shout back here and I'll run through in more detail.
> >
> > 73,
> >
> > Duncan

> > M0KGK
> >
>

1245. Re: [kgksdr] Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 23:47:36 UTC
From: Duncan Munro
Topic: 1238 Message: 1245

artus1947 wrote:

> ... Somehow going through that service
> modified the original file. The new download installs. Its
> interesting that the file size was correct. I have only had this
> issue with FTP services before, in which case it usually just will
> not connect because the port isn't open. I am sorry to have troubled
> you.

Hi Jack, not at all, I'm pleased you have a resolution and there's
something in the archive for future searches!

73,

Duncan
M0KGK

1246. Re: [kgksdr] Re: Installation Problem -- KGKSDR11

Yahoo group: kgksdr
Date: 2008-02-20 23:16:23 UTC
From: Jose A. Amador
Topic: 1238 Message: 1246

My installer size is the same as stated below (latest version)

```
> Directorio de g:\Instalar\KGKSDR
>
> 20-02-2008 18:09 <DIR> .
> 20-02-2008 18:09 <DIR> ..
> 19-11-2007 14:23 1.794.053 kgksdr11-63.exe
```

My installed files are the following:

```
> Directorio de C:\Programas\M0KGK SDR Transceiver
>
> 20-02-2008 17:56 <DIR> .
> 20-02-2008 17:56 <DIR> ..
> 16-11-2007 15:18 18.006 changes.txt
> 20-02-2008 17:55 <DIR> Help
> 16-11-2007 15:14 1.342.976 kgksdr11.exe
> 20-02-2008 17:55 43 License.txt
> 16-11-2007 15:17 479 readme.txt
> 20-02-2008 17:55 476 UnInst.log

> Directorio de C:\Programas\M0KGK SDR Transceiver\Help
>
> 20-02-2008 17:59 <DIR> .
> 20-02-2008 17:59 <DIR> ..
> 21-04-2007 20:08 653.658 kgksdr11.chm
```

You may have some other weird error, because the downloaded and installed sizes are the same here. Both the executable and the help work. CPU here is a Genuine Intel Pentium 4 @ 2.4 G with 512 MB RAM.

73,

Jose, CO2JA

---

artus1947 wrote:

```
> Duncan,
>
> I tried downloading a couple time with the same results -- installer
> gives the extraction error for the exe and the chm file. The size of
> the downloaded file reported in the properties dialog is 1.71 MB
> (1,794,053 bytes). The size of the extracted exe file is 1,342,976
> in the "c:\Program Files\M0KGK SDR Transceiver\" directory. I have
> AVG antivirus installed and up to date -- the last run was a few
```

> hours ago and no viruses reported. I am assuming that no one else is
> encountering a problem so must be something unique to my setup. Out
> of curiosity, I downloaded the 1.0.1.27 version and I encounter the
> same errors. This lead me to believe the problem may be with the
> installer routine. If you would like to try emailing me a copy of the
> file (artusom@...) that would be great, but I am thinking that
> the problem is not necessarily the download but some sort of
> installer incompatibility.
>
> 73,
> Jack
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>> artus1947 wrote:
>>> I downloaded the most recent version but I am having installation
>>> problems. When running the setup, it makes it to the "Start
> Copying
>>> Files" area but gives extraction errors on both the exe and the
> chm
>>> files. I've tried running the extracted program but it crashes
> with a
>>> runtime error 216 at 0040421A. I am running XP with 3 gigs of
> memory
>>> on an Athlon 4400 MSI M/B. I've also tried to run the setup prog
> in
>>> compatibility mode but that doesn't help. Any assisstance would
> be
>>> appreciated. 73, Jack (W0FNQ)
>> Hi Jack,
>>
>> Error 216 is a general protection fault (GPF) and there are likely
> one
>> of two reasons:
>>
>> 1. Your machine has a virus, or
>> 2. An incomplete download has been made of the software
>>
>> Open Windows explorer with right-click on the start button, then
>> explore. Navigate to where the downloaded file kgksdr11.exe lives,
> and
>> right click on it. Select properties and look at the file size
> which
>> should be 1,794,053 bytes.
>>
>> If it's less than this, your download is incomplete and you will
> have to
>> try again. If you're still having problems, post back here and
> I'll try
>> and mail you a copy of it.

```
>>
>> 73,
>>
>> Duncan
>> M0KGK
>>
```

1247. Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-21 22:45:40 UTC
From: jewellted
Topic: 1232 Message: 1247

--- In kgksdr@yahoogroups.com, Marcus Geselle <mgeselle@...> wrote:
>
> Hmm,
>
> looks like sloppy device driver programming to me.
> If the device driver for the network card
> hogs the CPU for too long, no other process
> will be able to get any processing time. Disabling
> interrupts during execution of driver code may lead
> to other devices losing interrupts.
> The effect you were observing could happen with
> any piece of hardware where the developer of the
> device driver did not care how long the execution
> times of the driver code are, as long as they do not
> make the system feel unresponsive to a user.
>
>
> However, the SDR stuff is pretty close to a real-time
> application, so some strange effects are to be
> expected on a non-realtime platform.
>
> Just my EUR--.002
>
> Marcus DL7GEM
>

Hi All,
I have now had time and resources to check further into my
Spurious problem.

1. The Delta-66 Soundcard in my PC is physically spaced from the
WiFi network card by one empty PCI slot. I have no reason to doubt
the general effectiveness of the on-card metal screening lid of the
network card at its design level but it is certainly not 100%
efficient.

2. I use the Waters & Stanton adapter board to interface 3.5mm
leads to and from my Delta-66 (rather than the large breakout box +
6mm connectors). The adapter is liberally equipped with series
chokes and decoupling capacitors reducing the likelihood of any pick-
up of WiFi signals directly radiated onto the external audio leads
from going into the soundcard.

3. I now know that the spurious problem is actually seen on both
Tx and Rx screens (more difficult to spot on the display of a
crowded, noisy HF band). Even with the v6.1 TXRX powered down but

fully connected, the effect can be seen right across the KGKSDR screen, it modulates any remaining line spectra and can also be heard more clearly with the signals and band noise off.

4. The problem is visible on other soundcard applications when using the Delta-66 card so is not simply associated with running M0KGK's software. I tested using Spectrum Lab and it showed the spurious clearly while all hardware was still connected as for Softrock operation. I tried using the PC motherboard soundcard and it did not show the problem when running Spectrum Lab or Rocky. Using Rocky with the Delta-66, the output was affected but rather less than with KGKSDR.

5. Testing with a dummy load connected in place of the WiFi antenna surprised me! I first had to get a Reverse Polarity SMA to SMA adapter
The WiFi network card remained fully active and still managed to establish a connection to my domestic system but with signal levels significantly reduced from "Excellent" to "Low". Data rate achieved was less than half normal. The localised RF field must have been significantly reduced.
The spurious signals on receive mode of all soundcard applications tested with the Delta-66 showed exactly the same level of unwanted response as before at the same time periods. This was an inconclusive test for checking whether it is RF interference or processor loading which is the exact cause but all applications using the Delta-66 on this PC are affected. It is certainly possible that the problem could be RF-related but I strongly doubt it. I cannot think of a way to disable all RF within the network card yet allow it to remain active on the computer's PCI bus in order to check more exhaustively. Radiating other 2.4 GHz signals {cordless phone} into the soundcard/wiring area at the rear of the PC had no effect at all.

6. It appears that the WiFi network card is given a relatively high priority allocation of processor time for a few seconds roughly every minute ☐ perhaps for network polling - and that the demands generated are just too much to allow intensive applications like KGKSDR to perform properly for very short "interrupt" periods when using the Delta-66 soundcard {PCI}. The effect is to "chop" modulate the transmitted or received signal during this period ☐ whichever is working at that point.

The "cure" still works well for me ☐ I simply don't need Internet access or e-mail distraction while I am running my Softrock.

Ted, G4ELM.

1248. Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-21 23:01:50 UTC
From: jewellted
Topic: 1232 Message: 1248

--- In kgksdr@yahoogroups.com, "jewellted" <jeweller@...> wrote:
>
> --- In kgksdr@yahoogroups.com, Marcus Geselle <mgeselle@> wrote:
> >
> > Hmm,
> >
> > looks like sloppy device driver programming to me.
> > If the device driver for the network card
> > hogs the CPU for too long, no other process
> > will be able to get any processing time. Disabling
> > interrupts during execution of driver code may lead
> > to other devices losing interrupts.
> > The effect you were observing could happen with
> > any piece of hardware where the developer of the
> > device driver did not care how long the execution
> > times of the driver code are, as long as they do not
> > make the system feel unresponsive to a user.
> >
> >
> > However, the SDR stuff is pretty close to a real-time
> > application, so some strange effects are to be
> > expected on a non-realtime platform.
> >
> > Just my EUR--.002
> >
> > Marcus DL7GEM
> >
>
> Hi All,
> I have now had time and resources to check further into my
> Spurious problem.
>
> 1. The Delta-66 Soundcard in my PC is physically spaced from the
> WiFi network card by one empty PCI slot. I have no reason to doubt
> the general effectiveness of the on-card metal screening lid of the
> network card at its design level but it is certainly not 100%
> efficient.
>
> 2. I use the Waters & Stanton adapter board to interface 3.5mm
> leads to and from my Delta-66 (rather than the large breakout box +
> 6mm connectors). The adapter is liberally equipped with series
> chokes and decoupling capacitors reducing the likelihood of any
pick-
> up of WiFi signals directly radiated onto the external audio leads

> from going into the soundcard.
>
> 3. I now know that the spurious problem is actually seen on both
> Tx and Rx screens (more difficult to spot on the display of a
> crowded, noisy HF band). Even with the v6.1 TXRX powered down but
> fully connected, the effect can be seen right across the KGKSDR
> screen, it modulates any remaining line spectra and can also be
heard
> more clearly with the signals and band noise off.
>
> 4. The problem is visible on other soundcard applications when
> using the Delta-66 card so is not simply associated with running
> M0KGK's software. I tested using Spectrum Lab and it showed the
> spurious clearly while all hardware was still connected as for
> Softrock operation. I tried using the PC motherboard soundcard and
> it did not show the problem when running Spectrum Lab or Rocky.
> Using Rocky with the Delta-66, the output was affected but rather
> less than with KGKSDR.
>
> 5. Testing with a dummy load connected in place of the WiFi
> antenna surprised me! I first had to get a Reverse Polarity SMA to
> SMA adapter
> The WiFi network card remained fully active and still managed to
> establish a connection to my domestic system but with signal levels
> significantly reduced from "Excellent" to "Low". Data rate
achieved
> was less than half normal. The localised RF field must have been
> significantly reduced.
> The spurious signals on receive mode of all soundcard applications
> tested with the Delta-66 showed exactly the same level of unwanted
> response as before at the same time periods. This was an
> inconclusive test for checking whether it is RF interference or
> processor loading which is the exact cause but all applications
using
> the Delta-66 on this PC are affected. It is certainly possible
that
> the problem could be RF-related but I strongly doubt it. I cannot
> think of a way to disable all RF within the network card yet allow
it
> to remain active on the computer's PCI bus in order to check more
> exhaustively. Radiating other 2.4 GHz signals {cordless phone}
into
> the soundcard/wiring area at the rear of the PC had no effect at
all.
>
> 6. It appears that the WiFi network card is given a relatively
> high priority allocation of processor time for a few seconds
roughly
> every minute ☐ perhaps for network polling - and that the demands

> generated are just too much to allow intensive applications like
> KGKSDR to perform properly for very short "interrupt" periods when
> using the Delta-66 soundcard {PCI}. The effect is to "chop"
modulate
> the transmitted or received signal during this period ☐ whichever
is
> working at that point.
>
> The "cure" still works well for me ☐ I simply don't need Internet
> access or e-mail distraction while I am running my Softrock.
>
> Ted, G4ELM.
>

For anyone interested in the detail of the effect, please see screen captures at 200 miles range, 80 metres - before and after! - now loaded in Photos.

Ted, G4ELM.

1249. Re: [kgksdr] Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-22 07:07:24 UTC
From: Alan
Topic: 1232 Message: 1249

----- Original Message -----
From: "jewellted" >
I have now had time and resources to check further into my
Spurious problem.

>1. The Delta-66 Soundcard in my PC is physically spaced from the
WiFi network card by one empty PCI slot. I have no reason to doubt
the general effectiveness of the on-card metal screening lid of the
network card

Ted,
Thanks for the update, you've tried hard!

One thing you do not say you've done is to alter the process priority for
the device drivers.

I mean going to "Task Manager", right clicking on the process and altering
priority.
The extreme would be to set the WiFi to low and KGKSDR to real time.

I've not mentioned this on the Softrock group but I wonder if similar things
are happening un-noticed

73 Alan G4ZFQ

2. I use the Waters & Stanton adapter board to interface 3.5mm
leads to and from my Delta-66 (rather than the large breakout box +
6mm connectors). The adapter is liberally equipped with series
chokes and decoupling capacitors reducing the likelihood of any pick-
up of WiFi signals directly radiated onto the external audio leads
from going into the soundcard.

3. I now know that the spurious problem is actually seen on both
Tx and Rx screens (more difficult to spot on the display of a
crowded, noisy HF band). Even with the v6.1 TXRX powered down but
fully connected, the effect can be seen right across the KGKSDR
screen, it modulates any remaining line spectra and can also be heard
more clearly with the signals and band noise off.

4. The problem is visible on other soundcard applications when
using the Delta-66 card so is not simply associated with running
M0KGK's software. I tested using Spectrum Lab and it showed the
spurious clearly while all hardware was still connected as for
Softrock operation. I tried using the PC motherboard soundcard and
it did not show the problem when running Spectrum Lab or Rocky.
Using Rocky with the Delta-66, the output was affected but rather
less than with KGKSDR.

5. Testing with a dummy load connected in place of the WiFi antenna surprised me! I first had to get a Reverse Polarity SMA to SMA adapter.
The WiFi network card remained fully active and still managed to establish a connection to my domestic system but with signal levels significantly reduced from "Excellent" to "Low". Data rate achieved was less than half normal. The localised RF field must have been significantly reduced.
The spurious signals on receive mode of all soundcard applications tested with the Delta-66 showed exactly the same level of unwanted response as before at the same time periods. This was an inconclusive test for checking whether it is RF interference or processor loading which is the exact cause but all applications using the Delta-66 on this PC are affected. It is certainly possible that the problem could be RF-related but I strongly doubt it. I cannot think of a way to disable all RF within the network card yet allow it to remain active on the computer's PCI bus in order to check more exhaustively. Radiating other 2.4 GHz signals {cordless phone} into the soundcard/wiring area at the rear of the PC had no effect at all.

6. It appears that the WiFi network card is given a relatively high priority allocation of processor time for a few seconds roughly every minute - perhaps for network polling - and that the demands generated are just too much to allow intensive applications like KGKSDR to perform properly for very short "interrupt" periods when using the Delta-66 soundcard {PCI}. The effect is to "chop" modulate the transmitted or received signal during this period - whichever is working at that point.

The "cure" still works well for me - I simply don't need Internet access or e-mail distraction while I am running my Softrock.

Ted, G4ELM.

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.20.9/1290 - Release Date: 20/02/2008 20:45

1250. Re: [kgksdr] Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-22 08:14:46 UTC
From: Duncan Munro
Topic: 1232 Message: 1250

Alan wrote:

> The extreme would be to set the WiFi to low and KGKSDR to real time.

That won't work as expected. KGKSDR process is merely front end stuff so setting it to real time won't make things any better, it will in fact make things a lot worse and may well lock the machine.

The real processing work is initiated by the soundcard driver threads as it's the callbacks for these which hook into KGKSDR to do all the receiver processing.

73,

Duncan
M0KGK

1251. Re: [kgksdr] Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-22 08:22:51 UTC
From: Alan
Topic: 1232 Message: 1251

```
----- Original Message -----
From: "Duncan Munro"
> Alan wrote:
>
>> The extreme would be to set the WiFi to low and KGKSDR to real time.
>
> That won't work as expected.
```

OK, thanks Duncan.
Would just setting WiFi low have any effect?
It would be interesting to know the cause of Ted's problem!

73 Alan G4ZFQ

1252. Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-22 09:58:05 UTC
From: Duncan Munro
Topic: 1232 Message: 1252

--- In kgksdr@yahoogroups.com, "Alan" <g4zfq@...> wrote:
>
>
> ----- Original Message -----
> From: "Duncan Munro"
> > That won't work as expected.
>
> OK, thanks Duncan.
> Would just setting WiFi low have any effect?

Not sure, but I guess there is no harm in trying. It may just be a CPU going away for too long issue which can normally be improved by increasing the buffer sizes on the sound card / ASIO4ALL.

73,

Duncan
M0KGK

1253. Re: Spurious modulation - cured!

Yahoo group: kgksdr
Date: 2008-02-22 09:58:06 UTC
From: Duncan Munro
Topic: 1232 Message: 1253

--- In kgksdr@yahoogroups.com, "Alan" <g4zfq@...> wrote:
>
>
> ----- Original Message -----
> From: "Duncan Munro"
> > That won't work as expected.
>
> OK, thanks Duncan.
> Would just setting WiFi low have any effect?

Not sure, but I guess there is no harm in trying. It may just be a CPU going away for too long issue which can normally be improved by increasing the buffer sizes on the sound card / ASIO4ALL.

73,

Duncan
M0KGK

1254. KGKSDR stories.

Yahoo group: kgksdr
Date: 2008-02-22 11:21:49 UTC
From: Janne Pulkkinen
Topic: 1254 Message: 1254

Hi everyone!

Instead of just doing questions at this group, I thought I might share some thoughts about my homebrew SDR transceiver and KGKSDR with you.

I started this project about 5 months ago. Before that I've built prototypes of SDR exciters and detectors, all IQ types. The vey first prototypes of polyphase network IQ receivers & transmitters were built 4-5 years ago. I came out with totally new, modular design, so I can say that this project began 5 months ago.

I've been playing with all possible demodulation softwares available and with the commonly used exciter/demodulation softwares. I just have to say, that KGKSDR comes closest to a homebrew fellow like me. PowerSDR is also fine peace of software, but I've had lots of difficulties with the preset features for different transceivers because my SDR transceiver is controlled through parallel port and besides that, I just like KGKSDR more, hah.

The reason for sharing this now, is that I finally have finished my SDR transceiver and completed my first overseas QSO on 20 meters using KGKSDR and my homebrew HW. So far I've used few different low pass filters to access few bands, but at this very moment I'm building all band low pass filter board. My software already supports this.

I'm running KGKSDR and my software side by side. What I have not done, is the linking between the two softwares so that the frequency display would follow each other. My own software does all the hardware controlling and it also monitors COM 1 -port for TX and relays this information to the transceiver.

I'm really really excited about this and am totally freaked out to see the new KGKSDR. I've even seen dreams about getting new mode to transmit on - FM, hi. I'm also designing VHF/UHF transverters complete this project as HF to 70cm transceiver.

You can check my project at www.oh1gtf.com

73 de Janne, OH1GTF

1255. Windows must close error

Yahoo group: kgksdr
Date: 2008-03-06 21:43:12 UTC
From: g4rqj
Topic: 1255 Message: 1255

Hi All,
Having some problems installing/configuring KSKSDR11 and a new soundblaster 24 live external. Every time the program is opened there is an immediate "windows must close" error which it promptly does. In the process the input side of the soundcard becomes tied up (fails the diagnostic check and other programs report it as unavailable)The only way round this is a complete reboot which frees up the card but the whole thing repeats if KGKSDR11 is tried again. Tried a re installation of both the card and KGKSDR11 with no luck, the creative software is not very co operative which doesn't help. Other progs, Rocky,Winrad and the kgk rx only prog seem happy. My guess is a registry error but I'm not the worlds best at software. Anyone any ideas?
System is 2.66Ghz Pentium running XP PRO.
Thanks
Rob
G4RQJ

1256. Is there any possibility to read/write frenquency data in KGKSDR at this moment?

Yahoo group: kgksdr
Date: 2008-03-07 09:07:19 UTC
From: Janne Pulkkinen
Topic: 1256 Message: 1256

Is there any possibility to read/write frequency data in KGKSDR at this moment?

73 de Janne, OH1GTF

1257. Re: [kgksdr] Windows must close error

Yahoo group: kgksdr
Date: 2008-03-08 09:13:08 UTC
From: Duncan Munro
Topic: 1255 Message: 1257

g4rqj wrote:
> Hi All,
> Having some problems installing/configuring KSKSDR11 and a new
> soundblaster 24 live external. Every time the program is opened there
> is an immediate "windows must close" error which it promptly does. In
> the process the input side of the soundcard becomes tied up (fails the
> diagnostic check and other programs report it as unavailable)The only
> way round this is a complete reboot which frees up the card but the
> whole thing repeats if KGKSDR11 is tried again. Tried a re installation
> of both the card and KGKSDR11 with no luck, the creative software is
> not very co operative which doesn't help. Other progs, Rocky,Winrad and
> the kgk rx only prog seem happy. My guess is a registry error but I'm
> not the worlds best at software. Anyone any ideas?
> System is 2.66Ghz Pentium running XP PRO.

What version of ASIO4all are you running? Also what are the entries
under Options -> Transceiver -> ASIO Soundcard ?

73,

Duncan
M0KGK

1258. Re: [kgksdr] Is there any possibility to read/write frenquency data in KGKSDR at this moment?

Yahoo group: kgksdr
Date: 2008-03-08 09:13:40 UTC
From: Duncan Munro
Topic: 1256 Message: 1258

Janne Pulkkinen wrote:
> Is there any possibility to read/write frequency data in KGKSDR at
> this moment?

At this time it cannot read/write frequency data.

73,

Duncan
M0KGK

1259. Re: Is there any possibility to read/write frenquency data in KGKSDR at this mom

Yahoo group: kgksdr
Date: 2008-03-09 07:51:40 UTC
From: Janne Pulkkinen
Topic: 1256 Message: 1259

Ok, thanks Duncan!

73 de Janne, OH1GTF

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Janne Pulkkinen wrote:
> > Is there any possibility to read/write frequency data in KGKSDR at
> > this moment?
>
> At this time it cannot read/write frequency data.
>
> 73,
>
> Duncan
> M0KGK
>

1260. Re: [kgksdr] Windows must close error

Yahoo group: kgksdr
Date: 2008-03-09 17:52:52 UTC
From: robandaud@tiscali.co.uk
Topic: 1255 Message: 1260

Thanks Duncan,after yet another total reload of everything, things seem to be working. I think the problem may have been caused by my selecting Creative ASIO rather than ASIO4. Just got to sort out the tx side now. Thanks again for the pointer.

73

Rob

G4RQJ

----Original Message----
From: m0kgk@...
Date: 08/03/2008 9:13
To: <kgksdr@yahoogroups.com>
Subj: Re: [kgksdr] Windows must close error

g4rqj wrote:
> Hi All,
> Having some problems installing/configuring KSKSDR11 and a new
> soundblaster 24 live external. Every time the program is opened there
> is an immediate "windows must close" error which it promptly does. In
> the process the input side of the soundcard becomes tied up (fails the
> diagnostic check and other programs report it as unavailable)The only
> way round this is a complete reboot which frees up the card but the
> whole thing repeats if KGKSDR11 is tried again. Tried a re installation
> of both the card and KGKSDR11 with no luck, the creative software is
> not very co operative which doesn't help. Other progs, Rocky,Winrad and
> the kgk rx only prog seem happy. My guess is a registry error but I'm
> not the worlds best at software. Anyone any ideas?
> System is 2.66Ghz Pentium running XP PRO.

What version of ASIO4all are you running? Also what are the entries
under Options -> Transceiver -> ASIO Soundcard ?

73,

Duncan
M0KGK

_____
Recycle old mobile phones and get paid up to £150 - http://www.tiscali.co.uk/recycle/

1262. Re: [kgksdr] CW console and macro's

Yahoo group: kgksdr
Date: 2008-03-16 13:33:00 UTC
From: Duncan Munro
Topic: 1262 Message: 1262

Erwin van den Bosch wrote:
> Hello,
>
> Is it possible to use macro's and a keyboard console with CW? Just
> like psk31.

Hi Erwin, I don't think there are any macros in KGKSDR for PSK although there might be in some of the related packages that are used with it. I'm doing some stuff on keyboard send with CW and macro keys would be a good idea for competition use etc.

73,

Duncan
M0KGK

1263. Re: [kgksdr] CW console and macro's

Yahoo group: kgksdr
Date: 2008-03-16 15:33:26 UTC
From: Erwin PA7N
Topic: 1262 Message: 1263

Hi Duncan,

I was a bit confused when sending my message ;-(Afcourse there is no psk31 build-in.

But a CW console is most welcome!

BTW: I like your program very much. The spectrum scope is great! There are always thinks to improve. Nice job!

73,
Erwin PA7N

On Sun, March 16, 2008 2:33 pm, Duncan Munro wrote:
> Erwin van den Bosch wrote:
>
>> Hello,
>>
>>
>> Is it possible to use macro's and a keyboard console with CW? Just
>> like psk31.
>
> Hi Erwin, I don't think there are any macros in KGKSDR for PSK although
> there might be in some of the related packages that are used with it. I'm
> doing some stuff on keyboard send with CW and macro keys would be a good
> idea for competition use etc.
>
> 73,
>
>
> Duncan
> M0KGK
>
>
>

1264. Re: KGKSDR stories.

Yahoo group: kgksdr
Date: 2008-03-17 12:17:52 UTC
From: Janne Pulkkinen
Topic: 1254 Message: 1264

Small update:

I started totally new DXCC chase - SDR transceiver QSOs. I was on vacation last week and had some time during the days when 20m was active. I managed to work 13 DXCCs for the SDR trx and 3 totally new DXCCs.

This was using KGKSDR and my homebrew SDR transceiver, which gives out approximately 16W of power.

I've put quite many new pics to my "SDR transceiver" -section www.oh1gtf.com

73s to every SDR fellow out there!

Janne, OH1GTF

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
> Hi everyone!
>
> Instead of just doing questions at this group, I thought I might
> share some thoughts about my homebrew SDR transceiver and KGKSDR
with you.
>
> I started this project about 5 months ago. Before that I've built
> prototypes of SDR exciters and detectors, all IQ types. The vey first
> prototypes of polyphase network IQ receivers & transmitters were built
> 4-5 years ago. I came out with totally new, modular design, so I can
> say that this project began 5 months ago.
>
> I've been playing with all possible demodulation softwares available
> and with the commonly used exciter/demodulation softwares. I just have
> to say, that KGKSDR comes closest to a homebrew fellow like me.
> PowerSDR is also fine peace of software, but I've had lots of
> difficulties with the preset features for different transceivers
> because my SDR transceiver is controlled through parallel port and
> besides that, I just like KGKSDR more, hah.
>
> The reason for sharing this now, is that I finally have finished my
> SDR transceiver and completed my first overseas QSO on 20 meters using
> KGKSDR and my homebrew HW. So far I've used few different low pass
> filters to access few bands, but at this very moment I'm building all
> band low pass filter board. My software already supports this.
>
> I'm running KGKSDR and my software side by side. What I have not

> done, is the linking between the two softwares so that the frequency
> display would follow each other. My own software does all the hardware
> controlling and it also monitors COM 1 -port for TX and relays this
> information to the transceiver.
>
> I'm really really excited about this and am totally freaked out to see
> the new KGKSDR. I've even seen dreams about getting new mode to
> transmit on - FM, hi. I'm also designing VHF/UHF transverters complete
> this project as HF to 70cm transceiver.
>
> You can check my project at www.oh1gtf.com
>
> 73 de Janne, OH1GTF
>

1265. System requirements

Yahoo group: kgksdr
Date: 2008-03-23 13:28:16 UTC
From: elnoko99
Topic: 1265 Message: 1265

Just completed the Softrock tx/rx 160m build. All seems to be working
but only when I set the sample rate to 48k. The PC has a 2.6Ghz cpu
with 512k ram. Delta 44 soundcard. If I switch to 96k the receive
audio is distorted and the tx audio is reported as having a warble.
When using the Rocky software the 96k setting works fine on receive.
The PC has no other programs loaded.
Any ideas as to why the 96k option does not work correctly.
Many thanks Alan G4MOM

1266. Re: [kgksdr] System requirements

Yahoo group: kgksdr
Date: 2008-03-23 14:02:58 UTC
From: Duncan Munro
Topic: 1265 Message: 1266

elnoko99 wrote:
> Just completed the Softrock tx/rx 160m build. All seems to be working
> but only when I set the sample rate to 48k. The PC has a 2.6Ghz cpu
> with 512k ram. Delta 44 soundcard. If I switch to 96k the receive
> audio is distorted and the tx audio is reported as having a warble.
> When using the Rocky software the 96k setting works fine on receive.
> The PC has no other programs loaded.
> Any ideas as to why the 96k option does not work correctly.

Hi Alan, what is your CPU load at 96k?

73,

Duncan
M0KGK

1267. Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-23 16:48:38 UTC
From: elnoko99
Topic: 1265 Message: 1267

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> elnoko99 wrote:
> > Just completed the Softrock tx/rx 160m build. All seems to be
working
> > but only when I set the sample rate to 48k. The PC has a 2.6Ghz
cpu
> > with 512k ram. Delta 44 soundcard. If I switch to 96k the
receive
> > audio is distorted and the tx audio is reported as having a
warble.
> > When using the Rocky software the 96k setting works fine on
receive.
> > The PC has no other programs loaded.
> > Any ideas as to why the 96k option does not work correctly.
>
> Hi Alan, what is your CPU load at 96k?
>
> 73,
> Duncan
> M0KGK
>

Duncan, I've undertaken a few more checks with the following
results;-
With the a full screen display CPU 100% at 96k. 80% at 48k.
With a small display the CPU is 80% at 96k. 62% at 48k.
With the screen fully minimised the load is 50% at 96k. 25% at 48k.
Looks like the problem may be something to do with the video card ?
Thanks for the quick response.
73
Alan G4MOM

1268. Re: [kgksdr] Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-23 16:59:25 UTC
From: Duncan Munro
Topic: 1265 Message: 1268

elnoko99 wrote:

> Duncan, I've undertaken a few more checks with the following
> results;-
> With the a full screen display CPU 100% at 96k. 80% at 48k.
> With a small display the CPU is 80% at 96k. 62% at 48k.
> With the screen fully minimised the load is 50% at 96k. 25% at 48k.
> Looks like the problem may be something to do with the video card ?
> Thanks for the quick response.

Hi Alan,

Sounds like the problem is CPU trying to catch up hence the bad audio.
I know that Rocky seems a bit more efficient in CPU use, so there are
situations where Rocky will work on 96k but KGKSDR won't.

Things to check would be if hardware acceleration is turned on for your
video card, also if your full screen is > 1024x768 it can eat CPU as well.

If you can get the CPU down, then all should be OK on the RX and TX
audio but if not shout back and we can look at buffer sizes etc. on your
soundcard.

73,

Duncan
M0KGK

1269. Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-23 22:32:02 UTC
From: elnoko99
Topic: 1265 Message: 1269

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> elnoko99 wrote:
>
> > Duncan, I've undertaken a few more checks with the following
> > results;-
> > With the a full screen display CPU 100% at 96k. 80% at 48k.
> > With a small display the CPU is 80% at 96k. 62% at 48k.
> > With the screen fully minimised the load is 50% at 96k. 25% at
48k.
> > Looks like the problem may be something to do with the video
card ?
> > Thanks for the quick response.
>
> Hi Alan,
>
> Sounds like the problem is CPU trying to catch up hence the bad
audio.
> I know that Rocky seems a bit more efficient in CPU use, so there
are
> situations where Rocky will work on 96k but KGKSDR won't.
>
> Things to check would be if hardware acceleration is turned on for
your
> video card, also if your full screen is > 1024x768 it can eat CPU
as well.
>
> If you can get the CPU down, then all should be OK on the RX and
TX
> audio but if not shout back and we can look at buffer sizes etc.
on your
> soundcard.
>
> 73,
>
> Duncan
> M0KGK
>
Hi Duncan,
The resolution was 1024x768. I have changed to 800x600 but still the
same. Also played around with the hardware accelerator slider via
control panel but no change.
73 Alan G4MOM

1270. Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-24 10:39:32 UTC
From: philip.lock
Topic: 1265 Message: 1270

--- In kgksdr@yahoogroups.com, "elnoko99" <brecon@...> wrote:
>
> Just completed the Softrock tx/rx 160m build. All seems to be working
> but only when I set the sample rate to 48k. The PC has a 2.6Ghz cpu
> with 512k ram. Delta 44 soundcard. If I switch to 96k the receive
> audio is distorted and the tx audio is reported as having a warble.
> When using the Rocky software the 96k setting works fine on receive.
> The PC has no other programs loaded.
> Any ideas as to why the 96k option does not work correctly.
> Many thanks Alan G4MOM
>
Hello Alan.

In the Delta 44 control panel try setting the DMA Buffer size to 1536
samples.

Philip g7jur.

1271. Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-24 19:44:19 UTC
From: elnoko99
Topic: 1265 Message: 1271

--- In kgksdr@yahoogroups.com, "philip.lock" <philip.lock@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "elnoko99" <brecon@> wrote:
> >
> > Just completed the Softrock tx/rx 160m build. All seems to be
working
> > but only when I set the sample rate to 48k. The PC has a 2.6Ghz
cpu
> > with 512k ram. Delta 44 soundcard. If I switch to 96k the
receive
> > audio is distorted and the tx audio is reported as having a
warble.
> > When using the Rocky software the 96k setting works fine on
receive.
> > The PC has no other programs loaded.
> > Any ideas as to why the 96k option does not work correctly.
> > Many thanks Alan G4MOM
> >
> Hello Alan.
>
> In the Delta 44 control panel try setting the DMA Buffer size to
1536
> samples.
>
> Philip g7jur.
>
Philip,

That seems to have cured the problem. I tested the tx on 160m this
afternoon with favourable audio reports received. The ASIO/WDM
buffer size is now set to 1536 but I'm still only sampling at 48k
as the 96k option still causes problems with a high cpu load.
I also had a quick tx using a.m. which seems to work. Duncan, can
you confirm or otherwise that the a.m. tx option is usable ?
Many thanks for all the help
Alan G4MOM

1272. Re: [kgksdr] Re: System requirements

Yahoo group: kgksdr
Date: 2008-03-24 19:55:32 UTC
From: Duncan Munro
Topic: 1265 Message: 1272

elnoko99 wrote:

> I also had a quick tx using a.m. which seems to work. Duncan, can
> you confirm or otherwise that the a.m. tx option is usable ?

Hi Alan,

I can confirm that AM TX is in there, FM is the one that's missing.

73,

Duncan
M0KGK

1273. sdr

Yahoo group: kgksdr
Date: 2008-03-31 20:59:41 UTC
From: Alex A
Topic: 1273 Message: 1273

Hello Duncan M0KGK,
I use yours a software, it works well. But I have
noticed one lack - at passage of signals filter edge
there are clicks.
At me it is appreciable at reception CW when the
filter narrow, on SSB is expressed less.
It seems to me that it is caused by a high steepness
of the filter or feature of processing by the program.
It will be very good if in the new version of the
program begins possible to change the size of buffer
DSP as it is made in PowerSDR.
On same computer PowerSDR does not show these lacks,
but I do not use it as there is no possibility to work
on transfer to mode SOFTROCK.

_____
Like movies? Here's a limited-time offer: Blockbuster Total Access for one month at no cost.
http://tc.deals.yahoo.com/tc/blockbuster/text4.com

1274. help please

Yahoo group: kgksdr
Date: 2008-04-03 03:39:20 UTC
From: tlk2gold
Topic: 1274 Message: 1274

how do i calculate the noise figure of the softrock 80m lite?

1275. Re: help please

Yahoo group: kgksdr
Date: 2008-04-03 09:55:45 UTC
From: Duncan Munro
Topic: 1274 Message: 1275

--- In kgksdr@yahoogroups.com, "tlk2gold" <tlk2gold@...> wrote:
>
> how do i calculate the noise figure of the softrock 80m lite?

Hi, probably the best place to ask is the Softrock group where you will find the guys who designed it.

http://groups.yahoo.com/group/softrock40/

73,

Duncan
M0KGK

1276. Re: sdr

Yahoo group: kgksdr
Date: 2008-04-03 09:57:23 UTC
From: Duncan Munro
Topic: 1273 Message: 1276

--- In kgksdr@yahoogroups.com, Alex A <ur5atf@...> wrote:
>
> Hello Duncan M0KGK,
> I use yours a software, it works well. But I have
> noticed one lack - at passage of signals filter edge
> there are clicks.
> At me it is appreciable at reception CW when the
> filter narrow, on SSB is expressed less.
> It seems to me that it is caused by a high steepness
> of the filter or feature of processing by the program.
> It will be very good if in the new version of the
> program begins possible to change the size of buffer
> DSP as it is made in PowerSDR.
> On same computer PowerSDR does not show these lacks,
> but I do not use it as there is no possibility to work
> on transfer to mode SOFTROCK.

Hi Alex, the filters in KGKSDR have straight sides so are Broken As Designed. This is something that becomes very prevalent, especially on narrow CW filters, and is something I need to fix.

73,

Duncan
M0KGK

1277. Re: [kgksdr] Re: help please

Yahoo group: kgksdr
Date: 2008-04-03 10:14:32 UTC
From: Alan
Topic: 1274 Message: 1277

```
----- Original Message -----
From: "Duncan Munro"

> --- In kgksdr@yahoogroups.com, "tlk2gold" <tlk2gold@...> wrote:
>>
>> how do i calculate the noise figure of the softrock 80m lite?
>
> Hi, probably the best place to ask is the Softrock group where you
> will find the guys who designed it.
>
> http://groups.yahoo.com/group/softrock40/
>

You may find someone to quote a noise figure but the term often used is MDS
in a particular bandwidth. You would find that in the message archives!
I wonder why you ask, most say the 80m Lite is sensitive enough but I find
it needs preamp or lower noise opamp to really dig for the weakest signals.

73 Alan G4ZFQ
```

1278. Re: [kgksdr] Re: help please

Yahoo group: kgksdr
Date: 2008-04-03 12:39:44 UTC
From: k5nwa
Topic: 1274 Message: 1278

At 05:14 AM 4/3/2008, you wrote:
>You may find someone to quote a noise figure but the term often used is MDS
>in a particular bandwidth. You would find that in the message archives!
>I wonder why you ask, most say the 80m Lite is sensitive enough but I find
>it needs preamp or lower noise opamp to really dig for the weakest signals.
>
>73 Alan G4ZFQ
>

It also depends on your sound card, with a 16 bit card you are a
little deaf compared to a good 24 bit card.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1279. Intro

Yahoo group: kgksdr
Date: 2008-04-03 14:11:28 UTC
From: K9ACT
Topic: 1274 Message: 1279

I have been using this for a month or so now and find it to be my favorite of the several I have tried.

I am using both Lite and the Soft rock transceiver but only for receive.

As a point of interest, I have not been able to get the transceiver version to run on either of my computers, XP and Vista. The receive version run of both.

If I had a wish list, I would like to be able to reduce the display window in a minimized mode without shrinking the signal height. I need a Note Pad open to copy CW so it is kind of cramped.

I notice that this can be done on Rocky but I have other problems with it.

I suppose it's a bug of some sort, but I can not change the freq display without deleting the current one. It appears that I should be able to store all the ones I use and just select as needed but this does not seem to work.

I use the Lite as an IF receiver on my S40B and the freq display is meaningless unless it is adjusted for particular regions of the band but it's too much trouble to change the way it is now.

Other than that, I really like the software.

Jack K9ACT

--
PHOTO OF THE WEEK: http://schmidling.com/pow.htm
Astronomy, Beer, Cheese, Fiber,Gems, Sausage,Silver http://schmidling.com

1280. Re: [kgksdr] Re: help please

Yahoo group: kgksdr
Date: 2008-04-03 14:24:56 UTC
From: Jose A. Amador
Topic: 1274 Message: 1280

That is true, but considerations are not limited to that fact.

I found on an IF to audio converter I made that the line input noise was a quite high, in spite of working with signals in the hundreds of millivolts range (200 to 500 mV pk-pk) at the output of the 4066 chopper. I added a buffer amplifier (one half pf a MC1458 with some 20 dB gain) and it improved the SNR some 20 dB as well.

Amplifiers equivalent input noise can be divided into voltage and current components. You can only overcome the voltage noise with a higher signal voltage, and the current noise using the lowest possible source impedance. Choosing the right amplifier here is the best, but I did not want to tweak the culprit, my otherwise fine Audigy 2 soundcard.

Of course, a bad gain distribution may impact the dynamic range. In my case, the source was my radio IF, which already was band limited and AGC controlled. A bit of more gain and a lower source impedance allowed me to push DRM capture to the limit, and get effective reception, which was previously usually masked by the current noise at the line input of the sound card.

73,

Jose, CO2JA

---

k5nwa wrote:
>
> At 05:14 AM 4/3/2008, you wrote:
> >You may find someone to quote a noise figure but the term often used
> is MDS
> >in a particular bandwidth. You would find that in the message archives!
> >I wonder why you ask, most say the 80m Lite is sensitive enough but I find
> >it needs preamp or lower noise opamp to really dig for the weakest
> signals.
> >
> >73 Alan G4ZFQ
> >
>
> It also depends on your sound card, with a 16 bit card you are a
> little deaf compared to a good 24 bit card.
>
> Cecil
> K5NWA
> www.softrockradio.org www.qrpradio.com
>

> "Blessed are the cracked, for they shall let in the light."

1281. Re: [kgksdr] Re: help please

Yahoo group: kgksdr
Date: 2008-04-03 15:04:40 UTC
From: Alan
Topic: 1274 Message: 1281

```
----- Original Message -----
From: "k5nwa"
>
> It also depends on your sound card, with a 16 bit card you are a
> little deaf compared to a good 24 bit card.
>

I use a D44, a recent check seemed to suggest it gave about 4-6db better S/N
than an on-board 16 bit one.
To get the maximum S/N on a real signal I still find I need (preferably) the
low noise opamp. That is much the same on all 3 Lites I am using between
3.4 - 5 MHz.

73 Alan G4ZFQ
```

1282. Re: sdr

Yahoo group: kgksdr
Date: 2008-04-03 18:40:57 UTC
From: ur5atf
Topic: 1273 Message: 1282

Hello Duncan M0KGK.
I will wait corrected version of your program. I wish you to achieve success, and I wish good luck in all.
73,

Alexey
UR5ATF

1283. Strange Way To Drop CPU Usage - old version

Yahoo group: kgksdr
Date: 2008-04-04 15:26:49 UTC
From: n3hkn
Topic: 1283 Message: 1283

I am trying to run KGKSDR (receive only)on an old Dell 500mhz PC. The latest receiver version almost works but there is 100% CPU and occasional breakup in the audio. So, I tried version 1.0.1.33. Also 100% usage but occasional drops to 97% indicating somewhat less load. Then I brought up the calibration map while in V33. The CPU usage dropped to 60% and the receiver continued to operate except that there was no access to the main GUI for control. Closing the calibration window returned to 100% usage. Guess the scanning for keystrokes is not done very well in VB.

Using one of the Softrock receivers tapped into my Kenwood TS-520S before its second conversion stage. Works very well and gives me filtering just like the wealthy with the $7000 rigs. Since the TS-520S has a manually tuned pre-selector I also have a "roofing" filter!

1284. Re: [kgksdr] Strange Way To Drop CPU Usage - old version

Yahoo group: kgksdr
Date: 2008-04-05 00:05:10 UTC
From: Ulf Jonsson
Topic: 1283 Message: 1284

I have a 80m Softrock that is retired since I built a 80/40 unit. I like to hook it up to my TS-520SE

Could you please share some more details on how you implemented it? I was thinking on hooking it up just before the crystal filters but that might not be a good idea.

I wounder if it is possible to use the RxTx and use it for transmit too.

Ulf
K1ULF

n3hkn@... wrote:

Using one of the Softrock receivers tapped into my Kenwood TS-520S before its second conversion stage. Works very well and gives me filtering just like the wealthy with the $7000 rigs. Since the TS-520S has a manually tuned pre-selector I also have a "roofing" filter!

1285. Re: Strange Way To Drop CPU Usage - old version

Yahoo group: kgksdr
Date: 2008-04-06 13:48:55 UTC
From: n3hkn
Topic: 1283 Message: 1285

Although I corresponded directly - FYI others. I ran RG-174 from the TS-520S to the antenna input of the Softrock receiver. The connection in the TS-520S was at the input to the xtal filter to give me maximum bandwidth and also use the bandswitching of the TS-520S. It works without any noticable effect on the normal operation of the TS-520S. This tap point is also before any AGC control so that is controlled by KGKSDR.

Ulf steered me to use an RC xtal in the Softrock receiver to place the received signal in the passband of KGKSDR when the TS-520S is tuned to the target frequency.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Ulf Jonsson <jonssouj@...> wrote:
>
> I have a 80m Softrock that is retired since I built a 80/40 unit. I like
> to hook it up to my TS-520SE
>
> Could you please share some more details on how you implemented it? I
> was thinking on hooking it up just before the crystal filters but that
> might not be a good idea.
>
> I wounder if it is possible to use the RxTx and use it for transmit too.
>
> Ulf
> K1ULF
>
>
> n3hkn@... wrote:
>
> Using one of the Softrock receivers tapped into my Kenwood TS-520S
> before its second conversion stage. Works very well and gives me
> filtering just like the wealthy with the $7000 rigs. Since the TS-520S
> has a manually tuned pre-selector I also have a "roofing" filter!
>

1286. Advice please.

Yahoo group: kgksdr
Date: 2008-04-13 10:05:55 UTC
From: Des
Topic: 1286 Message: 1286

Good morning Duncan and the group,

Running KGKSDR here, no problems except my PC is being stretched to its limit. Every 5 years or so I re-build the shack PC in order to keep-up with some of the new developments in ham related software.

I have to admit to not being anything like an expert on PC,s and every 5 years I seem to go through a steep learning curve in order to "upgrade" my own knowledge. Each time it gets a little easier but the thing that has me confused this time around is all the talk of "Dual Core" processors.

My current system is a 1.3 GHz Athlon with 384 M/Bytes of RAM and it has reached the limit for possible upgrades. Therefore I plan to purchase a new motherboard with the fastest processor I can afford and furnish it with around 2 G/Byte of RAM.

My question is this, will a dual core processr (and matching memory) offer me any significant advantages, does Win-XP take advantage of the two processors or is it only specially written applications which would use the dual core.

What I would like to do is run kgksdr and perhaps additional software to decode PSK or some other data modes. Would I be better served getting the fastest single core processor I can find or would a less speedy dual core processor perform better?

Best wishes to all on the list.

Des (M0AYF)

1287. Re: [kgksdr] Advice please.

Yahoo group: kgksdr
Date: 2008-04-13 11:17:30 UTC
From: Duncan Munro
Topic: 1286 Message: 1287

Des wrote:

> My question is this, will a dual core processr (and matching memory)
> offer me any significant advantages, does Win-XP take advantage of the
> two processors or is it only specially written applications which
> would use the dual core.

Hi Des,

I can't comment on XP and how in interacts with dual core because I simply don't know. However... I do know that dual core will not bring about any significant improvement in performance on KGKSDR as the bulk of the processing is done in a single thread.

On the memory front, KGKSDR doesn't use very much at all so the memory needs to be sized for your operating system. Both my machines run XP and 2GB seems to work well with them.

Just coming back to the dual core question, it might be worth you giving a shout on the Softrock40 group too to see if any of the other software packages are "dual core friendly".

73,

Duncan
M0KGK

1288. Re: Advice please.

Yahoo group: kgksdr
Date: 2008-04-13 11:58:25 UTC
From: Des
Topic: 1286 Message: 1288

Hi Duncan,

My thanks for your response to my question about dual core CPU,s and kgksdr/xp etc.

Your response was very helpful and having thought about it a little more it would seem that from a value-for-money/performance poit of view the "fast" single core CPU and 2 Gbyte memory will probably serve me well enough for a few years by which time I might just be ready for a dual core system. But I will also post on the Softrock40 group as you suggest before I "rush-out" to PC World Hi.

In the past I have found that being one step behind current technology means less "headaches" with software/drivers/Op-systems etc,

Thanks again Duncan.

Best wishes to all on the list.

Des. (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Des wrote:
>
> > My question is this, will a dual core processr (and matching memory)
> > offer me any significant advantages, does Win-XP take advantage of the
> > two processors or is it only specially written applications which
> > would use the dual core.
>
> Hi Des,
>
> I can't comment on XP and how in interacts with dual core because I
> simply don't know. However... I do know that dual core will not bring
> about any significant improvement in performance on KGKSDR as the bulk
> of the processing is done in a single thread.
>
> On the memory front, KGKSDR doesn't use very much at all so the memory
> needs to be sized for your operating system. Both my machines run XP
> and 2GB seems to work well with them.
>
> Just coming back to the dual core question, it might be worth you
giving
> a shout on the Softrock40 group too to see if any of the other software
> packages are "dual core friendly".
>
> 73,

>
> Duncan
> M0KGK
>

1289. Re: [kgksdr] Re: Advice please.

Yahoo group: kgksdr
Date: 2008-04-13 14:30:56 UTC
From: Duncan Munro
Topic: 1286 Message: 1289

Des wrote:

> In the past I have found that being one step behind current technology
> means less "headaches" with software/drivers/Op-systems etc,

Hi Des,

That's a good philosophy that's worked well for me over the years too,
which is why I'm still waiting before moving on to Vista ;-)

73,

Duncan
M0KGK

1290. Re: Advice please.

Yahoo group: kgksdr
Date: 2008-04-14 00:47:51 UTC
From: jeffthom99
Topic: 1286 Message: 1290

--- In kgksdr@yahoogroups.com, "Des" <d29602960@...> wrote:
>
> Good morning Duncan and the group,
>
> Running KGKSDR here, no problems except my PC is being stretched to
> its limit. Every 5 years or so I re-build the shack PC in order to
> keep-up with some of the new developments in ham related software.
>
> I have to admit to not being anything like an expert on PC,s and every
> 5 years I seem to go through a steep learning curve in order to
> "upgrade" my own knowledge. Each time it gets a little easier but the
> thing that has me confused this time around is all the talk of "Dual
> Core" processors.
>
> My current system is a 1.3 GHz Athlon with 384 M/Bytes of RAM and it
> has reached the limit for possible upgrades.

I bet you can get a bunch of mileage out of the old box by adding
RAM. If you are running Win 2000 then 1GB is the min. For Win XP 2GB
is abolut the min. These OS's are huge RAM users. As soon as you
run out of RAM for the OS plus applications then the OS starts using
overflow RAM which - unfortunately - is located on your hard drive.
When that happens it is like hitting the molasses (treacle) wall.
Everything comes to a near halt. With 384 MB and nearly ANY Windows
variant you are hitting that wall.

Therefore I plan to
> purchase a new motherboard with the fastest processor I can afford and
> furnish it with around 2 G/Byte of RAM.

TRhat said, every shack can use one PC for rouotine ops, logging,
decoding, etc. while the second attends to SD Radio and other such
vital Ham shack functions. :) For relatively low prices you could
try TigerDirect.com. His US prices are pretty good on many things,
especially RAM. I have no idea what happens when VAT, GST and all
those other 'liberal' wealth transfer fees are assigned - LOL.
>
> My question is this, will a dual core processr (and matching memory)
> offer me any significant advantages, does Win-XP take advantage of the
> two processors or is it only specially written applications which
> would use the dual core.
>
Win XP (and present Vista versions) set up housekeeping on one
processor core. Applications must be written so that they either
occupy the second core or split different threads of execution between
2 (or more) cores/ processors. This is not a trivial effort.

> What I would like to do is run kgksdr and perhaps additional software
> to decode PSK or some other data modes. Would I be better served
> getting the fastest single core processor I can find or would a less
> speedy dual core processor perform better?

Others here are better equipped to answer specific questions about kgksdr, etc. vis a vis multi-processor systems.

However, you might also be interested (or not :)) that there are now Linux distributions which reportedly will run on the second 'core' while Windows runs on the first. RAM must be apportioned between them and can include a shared RAM area for inter-communication. I am trying to learn how to set that one up now.

Jeff, KB3NAX

1291. Re: Advice please.

Yahoo group: kgksdr
Date: 2008-04-14 02:46:43 UTC
From: jr_dakota
Topic: 1286 Message: 1291

--- In kgksdr@yahoogroups.com, "Des" <d29602960@...> wrote:
>
> Good morning Duncan and the group,
>
> Running KGKSDR here, no problems except my PC is being stretched to
> its limit. Every 5 years or so I re-build the shack PC in order to
> keep-up with some of the new developments in ham related software.
>
> I have to admit to not being anything like an expert on PC,s and every
> 5 years I seem to go through a steep learning curve in order to
> "upgrade" my own knowledge. Each time it gets a little easier but the
> thing that has me confused this time around is all the talk of "Dual
> Core" processors.
>
> My current system is a 1.3 GHz Athlon with 384 M/Bytes of RAM and it
> has reached the limit for possible upgrades. Therefore I plan to
> purchase a new motherboard with the fastest processor I can afford and
> furnish it with around 2 G/Byte of RAM.
>
> My question is this, will a dual core processr (and matching memory)
> offer me any significant advantages, does Win-XP take advantage of the
> two processors or is it only specially written applications which
> would use the dual core.
>
> What I would like to do is run kgksdr and perhaps additional software
> to decode PSK or some other data modes. Would I be better served
> getting the fastest single core processor I can find or would a less
> speedy dual core processor perform better?
>
> Best wishes to all on the list.
>
> Des (M0AYF)
>

Your main advantage of a dual core processor is it increases your effective spped by about 1.9 .... In other words a dual core processor running at 2 Ghz is the equivelent of a single core running at 3.8Ghz ... True there are other advantages to dual cores but a lot of them can be done on a single core (Ask an Apple user and they'll be more than happy to brag about it) but the main reason they went to dual core (originally dual processors) was it was the best way to get around the speed 'wall', it's a lot easier to make a dual core running at 2 Ghz than make a single core running at 3.8 Ghz

So the simple answer is everything will be effectively twice as fast ... Be warned though that Windows Server 2003 and Vista are the only MS operating systems that true dual core processor support, the rest are just patched work arounds and not nearly as effective but you'll still get a major performance boost

Even if you aren't going to run Vista now, you will be running it someday guaranteed, so make it a part of your upgrade path, design your system so it will meet the Vista standards or be easily upgraded to meet Vista standards. For instance if you aren't gaming you can get by now with a cheap video card and upgrade to a better one for Vista (To take full advantage of Vista you need a gamer quality video card so Vista can offload the video processing instead of doing it in software like all previous versions of the Windows User Interface ... SDR software writers should take note of this, you can offload nearly all the video processing from the main processor so it can be utilized for DSP instead of on the spectrum display)

JR

1292. Re: [kgksdr] Advice please.

Yahoo group: kgksdr
Date: 2008-04-14 02:55:29 UTC
From: Ulf Jonsson
Topic: 1286 Message: 1292

I run KGKSDR on both a dual Xenon 2.8GHz (Dell Precision 630 I got from a corporate surplus store for $300) and a 1.7GHz pentium single processor machine.

The thing that really stand out with the dual processor machines is that you almost always have a processor to run with. I don't think a individual program runs better besides a few programs that can use both processors. With KGKSDR and Rocky I can even work with Sketch-up and rotate large assembly while still enjoying good sound.

With the other machine I could never leave the SDR software running while doing other tasks.

I'm not sure if a dual core behaves like a a traditional dual processor machine.

Ulf

Duncan Munro wrote:
>
> Des wrote:
>
> > My question is this, will a dual core processr (and matching memory)
> > offer me any significant advantages, does Win-XP take advantage of the
> > two processors or is it only specially written applications which
> > would use the dual core.
>
> Hi Des,
>
> I can't comment on XP and how in interacts with dual core because I
> simply don't know. However... I do know that dual core will not bring
> about any significant improvement in performance on KGKSDR as the bulk
> of the processing is done in a single thread.
>
> On the memory front, KGKSDR doesn't use very much at all so the memory
> needs to be sized for your operating system. Both my machines run XP
> and 2GB seems to work well with them.
>
> Just coming back to the dual core question, it might be worth you giving
> a shout on the Softrock40 group too to see if any of the other software
> packages are "dual core friendly".
>
> 73,
>
> Duncan
> M0KGK

>
>
> ----------
>
> No virus found in this incoming message.
> Checked by AVG.
> Version: 7.5.519 / Virus Database: 269.22.13/1376 - Release Date: 4/13/2008 1:45 PM
>

1293. Re: [kgksdr] Advice please.

Yahoo group: kgksdr
Date: 2008-04-17 18:38:29 UTC
From: Des
Topic: 1286 Message: 1293

Hi again to everyone on the list,

Many thanks for the additional responses and advice on PC upgrading.

After reading the posts/responses on this and the Softrock40 list I was able to better understand the advantages/disadvantages of choosing a single or dual core processor.

It would seem that here in the UK it would work out better value for money to go for a dual core processor. For the most part I will not be using the dual core to the full potential but as time goes by no doubt we will upgrade the OS to take advantage of the added processing power.

The current system has reached the limit of possible upgrades and what few parts could be upgraded have become difficult to obtain. I might be able to find some parts on eBay but the improvement in performance would be marginal at best.

So I will probably install "puppy linux" on the old system and use it as a net browser HI.

Thanks again to all for for the very helpful feedback.

Best wishes,

Des (M0AYF)

1294. Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-18 16:32:30 UTC
From: Des
Topic: 1294 Message: 1294

Hi to everyone on the list,

I have just been made aware of a web-based SDR system. It appears to work very well providing real-time coverage of a portion of both the 40 and 80 Mtr bands.

You will need a broad-band connection and Java enabled within your browser. Make sure your volume is turned up to :-) The URL for the on-line SDR is...

http://websdr.ewi.utwente.nl:8901/

If you have seen this already then please excuse the bandwidth.

73,s to all,

Des (M0AYF)

1295. Re: [kgksdr] Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-18 17:37:33 UTC
From: Chris McCarthy
Topic: 1294 Message: 1295
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1296. Re: Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-18 21:35:16 UTC
From: qrper723
Topic: 1294 Message: 1296

Good job Dess,
but how can I decode PSK31 siganls?

ja9mat hidehiko

1297. Re: Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-19 08:27:11 UTC
From: Des
Topic: 1294 Message: 1297

Hi again,

ja9mat wrote:
"but how can I decode PSK31 siganls?"
***

I downloaded a copy of Winpsk first ...

http://www.moetronix.com/ae4jy/winpsk.htm

Winpsk is a very user freindly psk program which makes very few demands on the CPU so its able to run with the SDR Jave applet.

Load-up the web-based SDR page and then load-up winpsk. If you look along the top of winpsk's window you should see a "pull down" option called "Settings", if you then choose "RX level adjust" from that menu it should bring up a Windows "Record control" box.

Tick the checkbox in the "What you hear" option and it should then permit Winpsk to decode the sounds you hear from your PC loudspeakers. This should work for other digital mode software to.

Here in the EU there are plenty of PSK signals in the evenings around 3800 kHz.

I hope this helps.

73,s

Des.

1298. Re: Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-19 09:18:43 UTC
From: qrper723
Topic: 1294 Message: 1298

Hi Des,
I'm happy to decode PSK31 signals now.
Thanks for suggestions!

ja9mat Hidehiko.

1299. VOX control?

Yahoo group: kgksdr
Date: 2008-04-19 10:11:04 UTC
From: Erik Platteeuw
Topic: 1299 Message: 1299

Hi All

Would like to use the M0KGK Transceiver software + WSPR K1JT on the SoftRock TRX 6.2 hardware. Don't find a VOX control in SSB-mode in my updated version(1.1.0.63) of the program. Bad update or normal?

73 de ON4LP

Erik

1300. Re: [kgksdr] VOX control?

Yahoo group: kgksdr
Date: 2008-04-19 11:28:37 UTC
From: Duncan Munro
Topic: 1299 Message: 1300

Erik Platteeuw wrote:
> Hi All
>
> Would like to use the M0KGK Transceiver software + WSPR K1JT on the
> SoftRock TRX 6.2 hardware. Don't find a VOX control in SSB-mode in my
> updated version(1.1.0.63) of the program. Bad update or normal?

Hi Erik, there was no VOX control in any of the earlier versions either so I don't think the update was bad. For SSB the options at this time are PTT or MOX.

73,

Duncan
M0KGK

1301. RE: [kgksdr] Re: Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-19 13:52:05 UTC
From: Box SisteenHundred
Topic: 1294 Message: 1301

use your normal psk program but change the input on the recording control to
be the wav mix output instead of the mic or line in.

73 - Bill KA8VIT

> To: kgksdr@yahoogroups.com
> From: qrper72@...
> Date: Fri, 18 Apr 2008 21:35:16 +0000
> Subject: [kgksdr] Re: Web based SDR (New toy?)
>
> Good job Dess,
> but how can I decode PSK31 siganls?
>
> ja9mat hidehiko
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

Going green? See the top 12 foods to eat organic.
http://green.msn.com/galleries/photos/photos.aspx?gid=164&ocid=T003MSN51N1653A

1302. Re: Web based SDR (New toy?)

Yahoo group: kgksdr
Date: 2008-04-19 22:53:49 UTC
From: qrper723
Topic: 1294 Message: 1302

Hi Bill,

Thanks for information and I will try another PSK decoder.

ja9mat Hidehiko.

> use your normal psk program but change the input on the recording
control to
> be the wav mix output instead of the mic or line in.
>
> 73 - Bill KA8VIT

1303. Frequency control of synchronized ad 9851 dds?

Yahoo group: kgksdr
Date: 2008-04-26 02:23:51 UTC
From: kg4kri
Topic: 1303 Message: 1303

Hello all,

I know this may be a bit off topic, especially for a first post. I recently bought a softrock v6.2 80/40 transceiver kit, as yet unbuilt. I am waiting until I can build in a better frequency control scheme. What I would like to do is use a pair of synchronized ad 9851 dds chips, which can be separately programmed with phase information, and skip the counters in the softrock. N2PK has built a homebrew Vector Network Analyzer that uses this scheme, with very superior quadrature performance an 0-60mhz capability. The circuit he uses is available on his web site. I think this would be a great way to expand the capability of the Softrock 6.2 trx in conjunction with Duncan's KGKSDR.
On to the issue... I don't really know how to program these chips, although the information is available. I just don't know how to program. Period. I was thrilled to discover that Duncan is active in the SDR field. I started using his programs for tube and power supply design years ago, and they are among the most used design tools in my arsenal. In addition, his SPICE tutorial got me through my first SPICE tube design.
Would anyone here be interested in working on incorporating frequency control for this dds pair into software, either a separate program or KGKSDR? I haven't built the softrock yet, but if Duncan's design software is any indicator, I am sure that is among the best.

Sincerely,
Daniel
KG4KRI

1304. Re: [kgksdr] Frequency control of synchronized ad 9851 dds?

Yahoo group: kgksdr
Date: 2008-04-26 06:14:48 UTC
From: Duncan Munro
Topic: 1303 Message: 1304

kg4kri wrote:

> Would anyone here be interested in working on incorporating
> frequency control for this dds pair into software, either a separate
> program or KGKSDR? I haven't built the softrock yet, but if Duncan's
> design software is any indicator, I am sure that is among the best.

Hi Daniel, there is a lot of talk right now on something similar, instead of the AD DDS chips, the Si570 programmable oscillator is being proposed. Have a look on the softrock40 group:

http://groups.yahoo.com/group/softrock40/

This might just be just what you want, and looks set to be the standard for softrock freq control.

73,

Duncan
M0KGK

1305. Re: [kgksdr] Frequency control of synchronized ad 9851 dds?

Yahoo group: kgksdr
Date: 2008-04-26 07:14:51 UTC
From: brainerd@wildblue.net
Topic: 1303 Message: 1305

On 26 Apr 2008 at 7:14, Duncan Munro wrote:

> kg4kri wrote:
>
> > Would anyone here be interested in working on incorporating
> > frequency control for this dds pair into software, either a separate
> > program or KGKSDR? I haven't built the softrock yet, but if Duncan's
> > design software is any indicator, I am sure that is among the best.
>
> Hi Daniel, there is a lot of talk right now on something similar,
> instead of the AD DDS chips, the Si570 programmable oscillator is being
> proposed. Have a look on the softrock40 group:
>
> http://groups.yahoo.com/group/softrock40/
>
> This might just be just what you want, and looks set to be the standard
> for softrock freq control.
>
> 73,
>
> Duncan
> M0KGK
>

I sell a small board for the Si570. a voltage regulator, and level converter chip for the I2C
bus. On the Softrock40 group files area, there is a program to control the Si570 from a parallel port. Others have programmed it with AVR chips and with PICs. The board is on my website under "For_Sale"

Dave - WB6DHW
<http://wb6dhw.com>

1306. Invalid floating point problem

Yahoo group: kgksdr
Date: 2008-05-07 14:22:25 UTC
From: Steve Murphy
Topic: 1306 Message: 1306

Hi,

It looks like I've created a problem for myself, and need some help.

I was having a problem balancing my I/Q on receive (due to cockpit error; the plug wasn't fully seated into the soundcard... D'OH!), and tried to balance it manually. Now, I'm getting the dreaded "invalid floating point" error when opening KGKSDR or trying to change any settings. I tried removing>rebooting>reinstalling, but to no avail.

Any suggestions?

I'm running KGKSDR on a Celeron under Windows 2000 SP4. It had been running fine up until I broke it.

Thanks and 73

Steve N8NM

1307. Re: Invalid floating point problem

Yahoo group: kgksdr
Date: 2008-05-07 14:52:37 UTC
From: Steve Murphy
Topic: 1306 Message: 1307

I found the answer in the help file; delete the calibration maps. I should've done a better job searching before I posted, sorry for the bandwidth!

73,

Steve N8NM

1308. Re: [kgksdr] Re: Invalid floating point problem

Yahoo group: kgksdr
Date: 2008-05-07 15:42:49 UTC
From: Duncan Munro
Topic: 1306 Message: 1308

Steve Murphy wrote:
> I found the answer in the help file; delete the calibration maps. I
> should've done a better job searching before I posted, sorry for the
> bandwidth!

It's OK Steve, no problems! What I should really do is get the software
to trap the error and fix the broken bit of the maps...

73,

Duncan
M0KGK

1309. Feature ideas

Yahoo group: kgksdr
Date: 2008-05-09 13:50:26 UTC
From: Steve Murphy
Topic: 1309 Message: 1309

Hi Duncan and the Group;

Things are working much better now that I've gotten my cabling repaired and sending both I and Q signals to the soundcard :-) I am very impressed with the capabilities and flexibility of your software, and having an absolute blast using it with my SoftRock RXTX V6.2. Truly amazing!

I have a few ideas for "enhancements". These might be rather stupid ideas, and if so, please be gentle.

First thing is that it'd be nice to have a CW sidetone. Maybe it's in there, but I'm not finding it. Same with a paddle interface.

Another thing that, I think, would be cool is if it were possible to exchange "CAT" data with logging programs. For instance, my "normal" radios are Icom 765s, and my logging programs (DXBase, N1MM, NA) read frequency and mode info from the rigs to automatically populate the log entries. Maybe it would be possible to pull this information from the software and make it available on a "virtual" serial port connection? Just a thought...

Kind of along those same lines, I use the "band data" from the Icom rigs to automatically select antennas, bandpass filters, etc. It would be useful (to maybe only me) to have that data available on, for example, pins of the LPT port.

These are absolutely not criticisms of the software, just some things that I would make use of if they were available. For all I know, I'm the only one who'd use these features, hi.

73,

Steve N8NM

1310. Source code?

Yahoo group: kgksdr
Date: 2008-05-09 14:19:16 UTC
From: Dominic Baines
Topic: 1310 Message: 1310

Duncan,
Where is the source code download?
73
Dom
M1KTA

Sent from Yahoo! Mail.
A Smarter Email http://uk.docs.yahoo.com/nowyoucan.html

1311. Re: [kgksdr] Feature ideas

Yahoo group: kgksdr
Date: 2008-05-09 15:06:46 UTC
From: Duncan Munro
Topic: 1309 Message: 1311

Steve Murphy wrote:
> First thing is that it'd be nice to have a CW sidetone. Maybe it's in
> there, but I'm not finding it. Same with a paddle interface.

Hi Steve, CW sidetone is in there:

Options -> Transceiver -> General -> CW Monitor style
Options -> Transceiver -> General -> CW Monitor level

Set the monitor style to TX Monitor and this will give you a sidetone, and the level control adjusts the volume of it to suit your preference. To be honest I prefer an external sidetone, but that's probably because I'm used to it.

There is no paddle interface as yet, but I'm still looking at this along with keyboard send.

> Another thing that, I think, would be cool is if it were possible to
> exchange "CAT" data with logging programs.

This is something that needs looking at, I can wrap this up with the Si570 and other control stuff. I may put this as a DLL with specification/code so it can be expanded for other control applications without needing to change the core KGKSDR software.

73,

Duncan
M0KGK

1312. Re: [kgksdr] Source code?

Yahoo group: kgksdr
Date: 2008-05-09 15:10:02 UTC
From: Duncan Munro
Topic: 1310 Message: 1312

Dominic Baines wrote:

> Where is the source code download?

Hi Dom, there is no source code download.

73,

Duncan
M0KGK

1313. Re: [kgksdr] Source code?

Yahoo group: kgksdr
Date: 2008-05-09 15:14:53 UTC
From: Dominic Baines
Topic: 1310 Message: 1313

OK thanks.

----- Original Message ----
From: Duncan Munro <m0kgk@duncanamps.com>
To: kgksdr@yahoogroups.com
Sent: Friday, 9 May, 2008 4:10:02 PM
Subject: Re: [kgksdr] Source code?

Dominic Baines wrote:

> Where is the source code download?

Hi Dom, there is no source code download.

73,

Duncan
M0KGK

Sent from Yahoo! Mail.
A Smarter Email http://uk.docs.yahoo.com/nowyoucan.html

1314. Re: [kgksdr] Feature ideas

Yahoo group: kgksdr
Date: 2008-05-09 15:36:48 UTC
From: Stephen M. Murphy
Topic: 1309 Message: 1314

Thanks for taking the time to consider my input, and for the info on the sidetone, I'll have to check that out. The more time I spend using your software, the more impressed I become with it!

73,

Steve N8NM

Duncan Munro wrote:
>
>
> Steve Murphy wrote:
> > First thing is that it'd be nice to have a CW sidetone. Maybe it's in
> > there, but I'm not finding it. Same with a paddle interface.
>
> Hi Steve, CW sidetone is in there:
>
> Options -> Transceiver -> General -> CW Monitor style
> Options -> Transceiver -> General -> CW Monitor level
>
> Set the monitor style to TX Monitor and this will give you a sidetone,
> and the level control adjusts the volume of it to suit your preference.
> To be honest I prefer an external sidetone, but that's probably
> because I'm used to it.
>
> There is no paddle interface as yet, but I'm still looking at this along
> with keyboard send.
>
> > Another thing that, I think, would be cool is if it were possible to
> > exchange "CAT" data with logging programs.
>
> This is something that needs looking at, I can wrap this up with the
> Si570 and other control stuff. I may put this as a DLL with
> specification/code so it can be expanded for other control applications
> without needing to change the core KGKSDR software.
>
> 73,
>
> Duncan
> M0KGK
>
>

1315. Re: [kgksdr] Feature ideas

Yahoo group: kgksdr
Date: 2008-05-09 17:18:00 UTC
From: Duncan Munro
Topic: 1309 Message: 1315

Stephen M. Murphy wrote:
> Thanks for taking the time to consider my input, and for the info on the
> sidetone, I'll have to check that out. The more time I spend using your
> software, the more impressed I become with it!

Hi Steve, just thinking if your interest is in CW you might want to try
Rocky too as it's very slick on this mode (it also has paddle capability):

http://www.dxatlas.com/Rocky/

73,

Duncan
M0KGK

1316. Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-05-18 02:27:35 UTC
From: qrper723
Topic: 1316 Message: 1316

Hi all,
I'm enjoying SSB QSOs on 40.20m band today.

I have a question about the recording of audio output (mono) settings.
I use the Delta44 and using its ASIO driver. I can not select the other
sound card (ex;built in sound card does not appear),so I soukd select
the Delta44 for the speaker output.

Then I push the "record" button on KGKSDR-1.1.0.63,the sound file .wav
is created but its sound is not audible,only some "click" appear.
But I can record the I-Q file with no-problem in this setting.
Only the mono audio recording is bad.

Is there any suggestions with recording the mono-audio using Delta44
card?

ja9mat Hidehiko.

1317. Re: [kgksdr] Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-05-18 13:20:24 UTC
From: Duncan Munro
Topic: 1316 Message: 1317

qrper723 wrote:
> Hi all,
> I'm enjoying SSB QSOs on 40.20m band today.
>
> I have a question about the recording of audio output (mono) settings.
> I use the Delta44 and using its ASIO driver. I can not select the other
> sound card (ex;built in sound card does not appear),so I soukd select
> the Delta44 for the speaker output.
>
> Then I push the "record" button on KGKSDR-1.1.0.63,the sound file .wav
> is created but its sound is not audible,only some "click" appear.
> But I can record the I-Q file with no-problem in this setting.
> Only the mono audio recording is bad.
>
> Is there any suggestions with recording the mono-audio using Delta44
> card?

Hi Hide, I cannot explain this one. The recording is done in the same place as the audio playback, so if you can hear audio from the speaker or headphones, it should be putting something on the .wav file.

Could you do a short .wav file (< 1MB) and email it to me? I'll see if what's in it gives me any clues.

73,

Duncan
M0KGK

1318. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-05-18 14:14:30 UTC
From: qrper723
Topic: 1316 Message: 1318

Hi Duncan,
Thanks for reply.
I put the small I-Q and mono file into "Files > Test wav files" folder now.
You will see the I-Q is OK but mono is bad.

I think it may be a FAQ but I can not resolve until now. hi.
Any suggestion is welcome.
73,
ja9mat Hidehiko.

> Could you do a short .wav file (< 1MB) and email it to me? I'll see if
> what's in it gives me any clues.
>
> 73,
>
> Duncan
> M0KGK
>

1319. Re: [kgksdr] Feature ideas

Yahoo group: kgksdr
Date: 2008-05-21 11:05:04 UTC
From: Stephen M. Murphy
Topic: 1309 Message: 1319

GM Duncan!

I checked out Rocky, and it is very nice, though I like yours better :-)
Specifically, I like the ability to configure the DSP perameters to my
liking and being able to select or even define custom CW/SSB filters as
desired. Very cool!

As for my sidetone issue, I've been using an external tone which works
OK. I had an epiphany of sorts this morning; I am using a single
soundcard, and probably need to configure for dual cards to enable the
sidetone monitor, since my line-out is sending IQ to the radio during
transmit...

Am I on target or have I simply had too much coffee this morning?

73,

Steve N8NM

Duncan Munro wrote:
>
>
> Stephen M. Murphy wrote:
> > Thanks for taking the time to consider my input, and for the info on the
> > sidetone, I'll have to check that out. The more time I spend using your
> > software, the more impressed I become with it!
>
> Hi Steve, just thinking if your interest is in CW you might want to try
> Rocky too as it's very slick on this mode (it also has paddle capability):
>
> http://www.dxatlas.com/Rocky/ <http://www.dxatlas.com/Rocky/>
>
> 73,
>
> Duncan
> M0KGK
>
>

1320. Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 05:47:24 UTC
From: Chris Roselaar
Topic: 1320 Message: 1320

Hi Steve,
I'm enjyoing your sdr-program almost daily and find myself making more and more recordings of qso's every day.
Whenever I mail those recordings to others I find the huge filesize of the .wav-files to be a bit of a problem. Would it be possible to adapt your program so as to make recordings in .mp3- (or any other) compressed format possible?
Maybe there's some code for that already available elsewhere. I also make use of hamradio-de-luxe, and though it isn't open source Simon might just want to help you out on this one.
73's Chris PA3FUN

1321. Re: [kgksdr] Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 08:34:05 UTC
From: Duncan Munro
Topic: 1320 Message: 1321

Chris Roselaar wrote:
> Hi Steve,
> I'm enjyoing your sdr-program almost daily and find myself making more
> and more recordings of qso's every day.
> Whenever I mail those recordings to others I find the huge filesize of
> the .wav-files to be a bit of a problem. Would it be possible to adapt
> your program so as to make recordings in .mp3- (or any other)
> compressed format possible?
> Maybe there's some code for that already available elsewhere. I also
> make use of hamradio-de-luxe, and though it isn't open source Simon
> might just want to help you out on this one.

Hi Chris, using .mp3 on the "as you hear" recordings would be a very good idea. However, it would not be possible on the IQ recordings (which are unfortunately the ones that get really big).

Another thing with the ongoing re-write will be alternative speaker sample rates, i.e. speaker at 8kHz mono so the .wav files for that should be fairly compact. I'll look at what's out there for .mp3 though as everyone has facilities to play those back these days.

73,

Duncan
M0KGK

1322. Re: [kgksdr] Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 14:59:18 UTC
From: k5nwa
Topic: 1320 Message: 1322

At 12:47 AM 5/26/2008, you wrote:

>Hi Steve,
>I'm enjyoing your sdr-program almost daily and find myself making more
>and more recordings of qso's every day.
>Whenever I mail those recordings to others I find the huge filesize of
>the .wav-files to be a bit of a problem. Would it be possible to adapt
>your program so as to make recordings in .mp3- (or any other)
>compressed format possible?
>Maybe there's some code for that already available elsewhere. I also
>make use of hamradio-de-luxe, and though it isn't open source Simon
>might just want to help you out on this one.
>73's Chris PA3FUN
>

If you are recording I/Q signals any kink of lossy compression is not
allowed or you loose the relationship between the signals, if it's
output audio you are trying to record then use "Audacity" to change
the bit rate and use a compressing codec such as MP3 or even better
use Quicktime.

Cecil
K5NWA
www.softrockradio.org www.qrpradio.com

"Blessed are the cracked, for they shall let in the light."

1323. Re: [kgksdr] Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 17:28:39 UTC
From: Christiaan J. Roselaar
Topic: 1320 Message: 1323

Duncan Munro schreef:
>
> Chris Roselaar wrote:
> > Hi Steve,
> > I'm enjyoing your sdr-program almost daily and find myself making more
> > and more recordings of qso's every day.
> > Whenever I mail those recordings to others I find the huge filesize of
> > the .wav-files to be a bit of a problem. Would it be possible to adapt
> > your program so as to make recordings in .mp3- (or any other)
> > compressed format possible?
> > Maybe there's some code for that already available elsewhere. I also
> > make use of hamradio-de-luxe, and though it isn't open source Simon
> > might just want to help you out on this one.
>
> Hi Chris, using .mp3 on the "as you hear" recordings would be a very
> good idea. However, it would not be possible on the IQ recordings
> (which are unfortunately the ones that get really big).
>
> Another thing with the ongoing re-write will be alternative speaker
> sample rates, i.e. speaker at 8kHz mono so the .wav files for that
> should be fairly compact. I'll look at what's out there for .mp3 though
> as everyone has facilities to play those back these days.
>
> 73,
>
> Duncan
> M0KGK
>
>
Hi Duncan,
Never had expected to get a response so quickly, great!
I understand about recording the I/Q-signals.
Indeed, no compression is possible there without the loss of essential
information (Nyquist;)
But it is in fact the audio-recording I was referring to.
Since I'm using seperate soundcards (Delta-44 for I/Q, Soundblaster PCI
for mic/speaker) I will change the samplerate for the latter to 8Kc
myself and see what happens.
And yep, incorporation an mp3-facility for this audio-output would be
super.
73's Duncan - keep up the good work.
Christiaan PA3FUN

1324. Re: [kgksdr] Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 17:38:25 UTC
From: Duncan Munro
Topic: 1320 Message: 1324

Christiaan J. Roselaar wrote:

> Since I'm using seperate soundcards (Delta-44 for I/Q, Soundblaster PCI
> for mic/speaker) I will change the samplerate for the latter to 8Kc
> myself and see what happens.

Hi Chris, you won't be able to set at 8 kHz right now as the TX software doesn't support different samplerates at this time (the old RX software will, and that's what I want to get back to). This is because the ASIO4all driver will force all cards to the same samplerate.

Re: the .mp3 stuff, I've downloaded the LAME encoder DLL and some interface software so will have a play around with that next weekend when I have a bit more time.

73,

Duncan
M0KGK

1325. Re: [kgksdr] Audio recording filesize

Yahoo group: kgksdr
Date: 2008-05-26 15:10:14 UTC
From: Jose A. Amador
Topic: 1320 Message: 1325

There are two scenarios:

- One, when you want to save amplitude and phase for further decoding of the I and Q channels. Wave recording of both I/Q channels is mandatory.

- Two, when the content, and not the signals per se, is important. You can capture the DEMODULATED, mono, audio and convert it to mp3, using, say, Audacity with the lame.dll plugin. Audacity and Lame are free software. With Audacity you may do your own selections after a bulk capture.

73,

Jose, CO2JA

Duncan Munro wrote:

> Chris Roselaar wrote:
>> Hi Steve,
>> I'm enjyoing your sdr-program almost daily and find myself making more
>> and more recordings of qso's every day.
>> Whenever I mail those recordings to others I find the huge filesize of
>> the .wav-files to be a bit of a problem. Would it be possible to adapt
>> your program so as to make recordings in .mp3- (or any other)
>> compressed format possible?
>> Maybe there's some code for that already available elsewhere. I also
>> make use of hamradio-de-luxe, and though it isn't open source Simon
>> might just want to help you out on this one.
>
> Hi Chris, using .mp3 on the "as you hear" recordings would be a very
> good idea. However, it would not be possible on the IQ recordings
> (which are unfortunately the ones that get really big).
>
> Another thing with the ongoing re-write will be alternative speaker
> sample rates, i.e. speaker at 8kHz mono so the .wav files for that
> should be fairly compact. I'll look at what's out there for .mp3 though
> as everyone has facilities to play those back these days.
>
> 73,
>
> Duncan
> M0KGK

1326. Softrock txrx / xtal switching

Yahoo group: kgksdr
Date: 2008-05-30 12:04:33 UTC
From: Chris Roselaar
Topic: 1326 Message: 1326

Hi All,
My softrock txrx has got two xtals, I can switch frequency through the on-board jumper. Upon switching I would like to easily change frequencies as displayed by KGKSDR. I notice the tab "frequencies" in the setup, where I can enter multiple frequencies. Does this in any way relate to my need?
Help?

1327. Re: [kgksdr] Softrock txrx / xtal switching

Yahoo group: kgksdr
Date: 2008-05-30 16:16:08 UTC
From: Duncan Munro
Topic: 1326 Message: 1327

Chris Roselaar wrote:
> Hi All,
> My softrock txrx has got two xtals, I can switch frequency through the
> on-board jumper. Upon switching I would like to easily change
> frequencies as displayed by KGKSDR. I notice the tab "frequencies" in
> the setup, where I can enter multiple frequencies. Does this in any way
> relate to my need?
> Help?

Yes, you can set up two frequencies amd call them "80m" and "40m" if
that's the bands you are using. The drop down on the middle left of the
main screen will then show these choices and when you pick the
appropriate band, the frequencies will show correctly.

It's further important to do this in that it will allow a separate
calibration map for each band which will give better results.

73,

Duncan
M0KGK

1328. Re: Softrock txrx / xtal switching

Yahoo group: kgksdr
Date: 2008-05-30 20:46:04 UTC
From: Chris Roselaar
Topic: 1326 Message: 1328

Hi Duncan,
Thanks for your clear explanation, it now works great!
73's Chris PA3FUN

1329. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 03:48:56 UTC
From: qrper723
Topic: 1316 Message: 1329

Dear Duncan,

I'm sorry but maybe there is something wrong setting about my wav file player. I use WMP and I can not play but I can play when I change the wav file player to Quick Time and Real Player. ummm...

Well I don't know the reason but anyway it seems nothing wrong with KGKSDR.

Thanks again!

ja9mat Hidehiko.

1330. Re: [kgksdr] Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 03:57:00 UTC
From: Duncan Munro
Topic: 1316 Message: 1330

qrper723 wrote:
> Dear Duncan,
>
> I'm sorry but maybe there is something wrong setting about my wav file
> player. I use WMP and I can not play but I can play when I change the
> wav file player to Quick Time and Real Player. ummm...
>
> Well I don't know the reason but anyway it seems nothing wrong with
> KGKSDR.

Hi Hide, the code to do the .wav file just uses simple RIFF chunks with 16 bit for maximum compatibility. I even did the IQ recording as 16 bit, lower quality but guaranteed to play on all machines!

Not sure why Media Player will not play, does it just stop or is there an error message of some sort?

73,

Duncan
M0KGK

1331. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 04:14:41 UTC
From: qrper723
Topic: 1316 Message: 1331

Hi Duncan,

The W.M.P. does not say error message.
It only appears like a pulse sound "Pash Pash".

Now I read the same wav file by another wav file editor "Goldwave".
Then it appears the following error message and nothing sounds.

"The internal file size is incorrect"
"The corrupt file"

It's just for information.

Hidehiko ja9mat.

> Not sure why Media Player will not play, does it just stop or is there
> an error message of some sort?
>
> 73,
>
> Duncan
> M0KGK
>

1332. Re: [kgksdr] Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 08:44:29 UTC
From: Duncan Munro
Topic: 1316 Message: 1332

qrper723 wrote:
> Hi Duncan,
>
> The W.M.P. does not say error message.
> It only appears like a pulse sound "Pash Pash".
>
> Now I read the same wav file by another wav file editor "Goldwave".
> Then it appears the following error message and nothing sounds.
>
> "The internal file size is incorrect"
> "The corrupt file"

How big is the file? I've just had a look in the files area and it's
not one of the ones in there.

73,

Duncan
M0KGK

1333. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 09:06:17 UTC
From: qrper723
Topic: 1316 Message: 1333

Hi Duncan,

I've uploaded the sample file of my last SSB QSO at files sectionj.
-> Please try "RX_JJ1UYR_SSB_QSO_20080606_173218.wav"

I think it's not so big file but can not be decoded by WMP only!
Quicktime and Real Player are good to decode this wav file. hi.

Do you have any suggestions?

Hidehiko ja9mat.

> How big is the file? I've just had a look in the files area and it's
> not one of the ones in there.

1334. Re: [kgksdr] Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 11:52:25 UTC
From: Duncan Munro
Topic: 1316 Message: 1334

qrper723 wrote:
> Hi Duncan,
>
> I've uploaded the sample file of my last SSB QSO at files sectionj.
> -> Please try "RX_JJ1UYR_SSB_QSO_20080606_173218.wav"
>
> I think it's not so big file but can not be decoded by WMP only!
> Quicktime and Real Player are good to decode this wav file. hi.

Hi Hide,

Not sure what is happening here - it plays just fine in WMP here (I'm using version 11.0).

I've uploaded a video to the Wave Files area called ja9mat.wmv so you can see it plays on my machine OK. It also works fine with my other two .wav file players, Quicktime and Nero Showtime.

73,

Duncan
M0KGK

1335. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-07 12:16:41 UTC
From: qrper723
Topic: 1316 Message: 1335

Hi Duncan,

Thanks again.
I saw your video working well.
My version of WMP is also v11 and I will check the setting at all.
73 and have a nice weekend!

Hidehiko ja9mat

> I've uploaded a video to the Wave Files area called ja9mat.wmv so you
> can see it plays on my machine OK. It also works fine with my other
two
> .wav file players, Quicktime and Nero Showtime.

1336. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-08 11:50:37 UTC
From: qrper723
Topic: 1316 Message: 1336

Hi Duncan,

I spend time for testing but I can not found the reason.
But I try to down version to WMP ver9, it works!!!

ja9mat Hidehiko

> My version of WMP is also v11 and I will check the setting at all.

1337. Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-15 05:35:48 UTC
From: qrper723
Topic: 1316 Message: 1337

Hi Duncan,

I tried to record the .wav file with using
KGKSDR-Decoder version 1.0.1.33.

And I can play above .wav file by my W.M.P. v11 with
no problem now. hi.

Maybe there is a difference about the recording procedure
between the KGKSDR-Decoder and the Transceiver.
It's just for infrmation.

ja9mat Hidehiko.

1338. Re: [kgksdr] Re: Mono Audio Recording Question with Delta44

Yahoo group: kgksdr
Date: 2008-06-15 08:44:53 UTC
From: Duncan Munro
Topic: 1316 Message: 1338

qrper723 wrote:

> Maybe there is a difference about the recording procedure
> between the KGKSDR-Decoder and the Transceiver.
> It's just for infrmation.

Hi Hide,

The code in the RX and TX for recording audio should be exactly the same, but thanks for letting me know because I will check for differences anyway.

73,

Duncan
M0KGK

1339. Laptop with no physical COM ports. Linking KGKSDR + other software through VCOM?

Yahoo group: kgksdr
Date: 2008-06-24 12:25:58 UTC
From: Janne Pulkkinen
Topic: 1339 Message: 1339

Hi fellows, here's a tricky one!

On my Desktop computer I've linked KGKSDR's and my software's PTT information through a physical serial port. This is easy, I just setup KGKSDR to COM1 and read the state of COM1 PTT pin.

Now with my laptop (just bought it for the SDR), with no physical serial port I'm in trouble. I tried com0com virtual serial port, but don't know if it needs a physical com port to link to.

At least I tried it in several different ways with the com0com and couldn't make it to work.

Do you guys have any idea how I could be able to link KGKSDR's PTT info with my own software. I've compiled the software with VB6 using inpout32.dll. So the addresses of serial ports are traditional 3F8, 2F8 and so on.

73's de Janne OH1GTF

1340. Re: Laptop with no physical COM ports. Linking KGKSDR + other software through V

Yahoo group: kgksdr
Date: 2008-06-26 13:15:28 UTC
From: Janne Pulkkinen
Topic: 1339 Message: 1340

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
> Hi fellows, here's a tricky one!
>
> On my Desktop computer I've linked KGKSDR's and my software's PTT
> information through a physical serial port. This is easy, I just setup
> KGKSDR to COM1 and read the state of COM1 PTT pin.
>
> Now with my laptop (just bought it for the SDR), with no physical
> serial port I'm in trouble. I tried com0com virtual serial port, but
> don't know if it needs a physical com port to link to.
>
> At least I tried it in several different ways with the com0com and
> couldn't make it to work.
>
> Do you guys have any idea how I could be able to link KGKSDR's PTT
> info with my own software. I've compiled the software with VB6 using
> inpout32.dll. So the addresses of serial ports are traditional 3F8,
> 2F8 and so on.
>
>
> 73's de Janne OH1GTF
>

I'm testing with VB Virtual Basic Software at the moment and as an result here's another question:

Does KGKSDR support/does it function with virtual ports?

Today I got an USB to Serial port (Prolific PL-2303) converter and I still couldn't make KGKSDR to talk (PTT) with any software. Just in case, I went back to the shop with my lapto and tested with another USB to serial converter unit, just to make sure it was functioning.

I set the converter to COM6 and KGKSDR to COM6, but nothing happend. No states were changed at the com port when TX/RX changes (measured with meter) were made at KGKSDR. Didn't also work vise versa.

Any ideas? Would be really glad to have any comments, any information.

73 de Janne, OH1GTF

1341. Re: Laptop with no physical COM ports. Linking KGKSDR + other software through V

Yahoo group: kgksdr
Date: 2008-06-26 13:32:29 UTC
From: Duncan Munro
Topic: 1339 Message: 1341

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:

> I set the converter to COM6 and KGKSDR to COM6, but nothing happend.
> No states were changed at the com port when TX/RX changes (measured
> with meter) were made at KGKSDR. Didn't also work vise versa.
>
> Any ideas? Would be really glad to have any comments, any
information.

Hi Janne,

KGKSDR will support any com port needed, it has COM1 to COM20 on the dropdown which should suit most systems.

Sometimes setting the USB/Serial unit manually doesn't work as it should, the best way is to disconnect the converter, delete the COM port from Control Panel -> System -> Device Manager.

Reboot the PC and plug it in, let the COM port auto-assign and then set KGKSDR to this.

There is quite a lot of stuff on the web on these converters assigning/locking ports and making them unavailable for use, even by themselves.

If you follow the instructions above it should work correctly.

73,

Duncan
M0KGK

1342. Re: Laptop with no physical COM ports. Linking KGKSDR + other software through V

Yahoo group: kgksdr
Date: 2008-06-26 13:40:10 UTC
From: Janne Pulkkinen
Topic: 1339 Message: 1342

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@> wrote:
>
> > I set the converter to COM6 and KGKSDR to COM6, but nothing happend.
> > No states were changed at the com port when TX/RX changes (measured
> > with meter) were made at KGKSDR. Didn't also work vise versa.
> >
> > Any ideas? Would be really glad to have any comments, any
> information.
>
> Hi Janne,
>
> KGKSDR will support any com port needed, it has COM1 to COM20 on the
> dropdown which should suit most systems.
>
> Sometimes setting the USB/Serial unit manually doesn't work as it
> should, the best way is to disconnect the converter, delete the COM
> port from Control Panel -> System -> Device Manager.
>
> Reboot the PC and plug it in, let the COM port auto-assign and then
> set KGKSDR to this.
>
> There is quite a lot of stuff on the web on these converters
> assigning/locking ports and making them unavailable for use, even by
> themselves.
>
> If you follow the instructions above it should work correctly.
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan!

Actually I did the previous several times. I think that the USB to
serial converter I used just doesn't work for this purpose even though
the datasheet claims it to support all DTR, DCD and so on.

I've read from few sources that some converters just don't work.

But my other option would be to have the softwares to talk (only the
PTT information) through DLL (did you receive my mail considering

this). If there's no trouble, I would be glad to know how to do that.

-Janne

1343. Re: [kgksdr] Re: Laptop with no physical COM ports. Linking KGKSDR + other software through V

Yahoo group: kgksdr
Date: 2008-06-26 14:14:54 UTC
From: Milt Cram
Topic: 1339 Message: 1343

Janne Pulkkinen wrote:
> --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
>> --- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@> wrote:
>>
>>
>>> I set the converter to COM6 and KGKSDR to COM6, but nothing happend.
>>> No states were changed at the com port when TX/RX changes (measured
>>> with meter) were made at KGKSDR. Didn't also work vise versa.
>>>
>>> Any ideas? Would be really glad to have any comments, any
>>>
>> information.
>>
>> Hi Janne,
>>
>> KGKSDR will support any com port needed, it has COM1 to COM20 on the
>> dropdown which should suit most systems.
>>
>> Sometimes setting the USB/Serial unit manually doesn't work as it
>> should, the best way is to disconnect the converter, delete the COM
>> port from Control Panel -> System -> Device Manager.
>>
>> Reboot the PC and plug it in, let the COM port auto-assign and then
>> set KGKSDR to this.
>>
>> There is quite a lot of stuff on the web on these converters
>> assigning/locking ports and making them unavailable for use, even by
>> themselves.
>>
>> If you follow the instructions above it should work correctly.
>>
>> 73,
>>
>> Duncan
>> M0KGK
>>
>>
>
>
> Hi Duncan!
>
> Actually I did the previous several times. I think that the USB to
> serial converter I used just doesn't work for this purpose even though

> the datasheet claims it to support all DTR, DCD and so on.
>
> I've read from few sources that some converters just don't work.
>
> But my other option would be to have the softwares to talk (only the
> PTT information) through DLL (did you receive my mail considering
> this). If there's no trouble, I would be glad to know how to do that.
>
> -Janne
>
>
>
Hi Janne,

If you haven't already done so, you might want to go to the website of the manufacturer of your USB to Serial converter and get the latest driver. I have found this to be necessary on a couple of occasions. My USB to Serial converter did not properly control the DTR, etc until I installed the latest driver.

Milt
W8NUE

1344. Re: [kgksdr] Re: Laptop with no physical COM ports. Linking KGKSDR

Yahoo group: kgksdr
Date: 2008-06-26 20:38:04 UTC
From: Tormod Johansen
Topic: 1339 Message: 1344

Milt Cram skrev:

Janne Pulkkinen wrote:

--- In kgksdr@yahoogroups.com, "Duncan Munro" wrote:

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" wrote:

I set the converter to COM6 and KGKSDR to COM6, but nothing happend.
No states were changed at the com port when TX/RX changes (measured
with meter) were made at KGKSDR. Didn't also work vise versa.

Any ideas? Would be really glad to have any comments, any

information.

Hi Janne,

KGKSDR will support any com port needed, it has COM1 to COM20 on the
dropdown which should suit most systems.

Sometimes setting the USB/Serial unit manually doesn't work as it
should, the best way is to disconnect the converter, delete the COM
port from Control Panel -> System -> Device Manager.

Reboot the PC and plug it in, let the COM port auto-assign and then
set KGKSDR to this.

There is quite a lot of stuff on the web on these converters
assigning/locking ports and making them unavailable for use, even by
themselves.

If you follow the instructions above it should work correctly.

73,

Duncan
M0KGK

Hi Duncan!

Actually I did the previous several times. I think that the USB to
serial converter I used just doesn't work for this purpose even though
the datasheet claims it to support all DTR, DCD and so on.

I've read from few sources that some converters just don't work.

But my other option would be to have the softwares to talk (only the
PTT information) through DLL (did you receive my mail considering

this). If there's no trouble, I would be glad to know how to do that.

-Janne

Hi Janne,

If you haven't already done so, you might want to go to the website of the manufacturer of your USB to Serial converter and get the latest driver. I have found this to be necessary on a couple of occasions. My USB to Serial converter did not properly control the DTR, etc until I installed the latest driver.

Milt
W8NUE

Yahoo! Groups Links

<*> To visit your group on the web, go to:
http://groups.yahoo.com/group/kgksdr/

<*> Your email settings:
Individual Email | Traditional

<*> To change settings online go to:
http://groups.yahoo.com/group/kgksdr/join
(Yahoo! ID required)

<*> To change settings via email:
mailto:kgksdr-digest@yahoogroups.com
mailto:kgksdr-fullfeatured@yahoogroups.com

<*> To unsubscribe from this group, send an email to:
kgksdr-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

Denne e-post er kontrollert av lovund.org mail system.
Og den er fri for virus....

Try this one : http://www.sparkfun.com/commerce/product_info.php?products_id=199
I use it with my EchoLink setup.
You get RS232 signals with TTL levels directly.
LA4ELA.
mail.txt

Denne e-post er kontrollert av lovund.org mail system.
Og den er fri for virus...

1345. Re: Laptop with no physical COM ports. Linking KGKSDR + other software through V

Yahoo group: kgksdr
Date: 2008-06-27 05:02:22 UTC
From: Janne Pulkkinen
Topic: 1339 Message: 1345

--- In kgksdr@yahoogroups.com, Milt Cram <w8nue@...> wrote:
>
> Janne Pulkkinen wrote:
> > --- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@> wrote:
> >
> >> --- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@> wrote:
> >>
> >>
> >>> I set the converter to COM6 and KGKSDR to COM6, but nothing
happend.
> >>> No states were changed at the com port when TX/RX changes
(measured
> >>> with meter) were made at KGKSDR. Didn't also work vise versa.
> >>>
> >>> Any ideas? Would be really glad to have any comments, any
> >>>
> >> information.
> >>
> >> Hi Janne,
> >>
> >> KGKSDR will support any com port needed, it has COM1 to COM20 on
the
> >> dropdown which should suit most systems.
> >>
> >> Sometimes setting the USB/Serial unit manually doesn't work as
it
> >> should, the best way is to disconnect the converter, delete the
COM
> >> port from Control Panel -> System -> Device Manager.
> >>
> >> Reboot the PC and plug it in, let the COM port auto-assign and
then
> >> set KGKSDR to this.
> >>
> >> There is quite a lot of stuff on the web on these converters
> >> assigning/locking ports and making them unavailable for use,
even by
> >> themselves.
> >>
> >> If you follow the instructions above it should work correctly.
> >>
> >> 73,
> >>
> >> Duncan

> >> M0KGK
> >>
> >>
> >
> >
> > Hi Duncan!
> >
> > Actually I did the previous several times. I think that the USB
to
> > serial converter I used just doesn't work for this purpose even
though
> > the datasheet claims it to support all DTR, DCD and so on.
> >
> > I've read from few sources that some converters just don't work.
> >
> > But my other option would be to have the softwares to talk (only
the
> > PTT information) through DLL (did you receive my mail considering
> > this). If there's no trouble, I would be glad to know how to do
that.
> >
> > -Janne
> >
> >
> >
> Hi Janne,
>
> If you haven't already done so, you might want to go to the website
of
> the manufacturer of your USB to Serial converter and get the latest
> driver. I have found this to be necessary on a couple of
occasions. My
> USB to Serial converter did not properly control the DTR, etc until
I
> installed the latest driver.
>
> Milt
> W8NUE
>

Hi Milt!

Yep, done this too. Whatever HW I install to my computer, the 1st
thing is to find the latest drivers. But thanks for the idea.
Sometimes I (and I thing everybody) forgets these fool little
things :)

73 de Janne

1346. Re: Laptop with no physical COM ports. Linking KGKSDR (Solved)

Yahoo group: kgksdr
Date: 2008-06-27 05:26:15 UTC
From: Janne Pulkkinen
Topic: 1339 Message: 1346

Hi Tormod and everybody!

>Try this one : http://www.sparkfun.com/commerce/product_info.php?
>products_id=199
>I use it with my EchoLink setup.
>You get RS232 signals with TTL levels directly.
>LA4ELA.

I really appreciate this! I already solved the problem, but It's really good to know decent converters. I know I will need one, in some point in the future.

THE PROBLEM SO FAR IS SOLVED. The solution:

I found an evaluation version of commercial ActiveX Virtual Serial Port with VB6 support. The software is made by Eltima and is called VPS AX 6. The evaluation version can create only one com port or a pair of com ports (solid 6 and/or 7) and the amount of data is limited to 10k. It has a pop up window included in the DLL software, so when I run it, it gives this "Thank you for evaluating this... blaa blaa blaa". The point is, these doesn't bother me at all. The limit of 10k data doesn't limit controlling PTT. I got everithing working with the price of this little pop up window

I spent the the whole last evening till 2 am (working today, hi) and was able to modify the software and include it my own SDR controller software. It's working 100%. Have tested it on 3 computers now (my laptop, desktop and work desktop).

If you catch yourself thinking that you need USB to Serial converter, just for the PTT work between your software and KGKSDR (and others of course) I suggest you to check The VPX AX 6. It has wide support for different compiling languages and it's easy to modify, so I definitely recommend to test it.

Thanks for the replies fellows!

73 de Janne, OH1GTF

1347. M0KGK and Digi Mode Software

Yahoo group: kgksdr
Date: 2008-07-03 22:11:00 UTC
From: Larry W. Irwin Sr
Topic: 1347 Message: 1347

Hi all,

I just got my SoftRock 6.2 rx/tx working and am working on getting the software going. I have the M0KGK software working pretty well except it locks up when I try to change the band to 40 meters.

What is driving me nuts is how to pipe data from the sdr software to MixW. I have searched the mail archive here and it seems that everyone else is working on that as well. I am not totally married to MixW, though I do like it very much. I would be willing to switch to something else to get me on the air with psk31.

I live on Social Security disability alone so I don't have money to buy commercial software. Any workable solutions would be greatly appreciated.

73
Larry
WB4HLX

1348. request: make it work with standard Windows sound drivers

Yahoo group: kgksdr
Date: 2008-07-06 03:33:12 UTC
From: Vojtech Bubnik
Topic: 1348 Message: 1348

Hi Duncan.

I am currently struggling to get any SDR SW working on any of my two laptops. I am a computer programmer, but I have great troubles to get it sorted out. Some of the SDR software makes glitches in RX, some in TX, some only samples 44k etc. I like your SW because it is lightweight and provides for HB9TLK loop.dll. But my sound card does not seem to be working well with ASIO4ALL. Would you please extend your SW to work with at least one standard Windows sound IO?

Thanks and 73, Vojtech OK1IAK, AB2ZA

1349. Re: M0KGK and Digi Mode Software

Yahoo group: kgksdr
Date: 2008-07-06 03:36:40 UTC
From: Vojtech Bubnik
Topic: 1347 Message: 1349

> What is driving me nuts is how to pipe data from the sdr software to
> MixW. I have searched the mail archive here and it seems that everyone
> else is working on that as well. I am not totally married to MixW,
> though I do like it very much. I would be willing to switch to
> something else to get me on the air with psk31.

Hi Larry.

You could try to download loop.dll from softrock40 files section and interface M0KGK SW with MultiPSK. You need to copy loop.dll into Windows/System32 directory and select HB9TLK loop.dll interface on the startup screen of MultiPSK.

If you want to use MixW, you will need to install a Virtual Audio Cable driver (it costs $30).

73, Vojtech OK1IAK

1350. Re: M0KGK and Digi Mode Software

Yahoo group: kgksdr
Date: 2008-07-07 22:29:38 UTC
From: Larry W. Irwin Sr
Topic: 1347 Message: 1350

--- In kgksdr@yahoogroups.com, "Vojtech Bubnik" <bubnikv@...> wrote:
> You could try to download loop.dll from softrock40 files section and
> interface M0KGK SW with MultiPSK. You need to copy loop.dll into
> Windows/System32 directory and select HB9TLK loop.dll interface on the
> startup screen of MultiPSK.
>
> If you want to use MixW, you will need to install a Virtual Audio
> Cable driver (it costs $30).
>
> 73, Vojtech OK1IAK

Thank you for the information. I will do that.

73
Larry WB4HLX

1351. qustion : new to SDR and kgksdr

Yahoo group: kgksdr
Date: 2008-07-12 15:24:35 UTC
From: Jay
Topic: 1351 Message: 1351

I am trying to get my softrock rx/tx 6.2 working.
I have it working with winsdr but it does not allow me to change bands.
The issue I a having with kgksdr is that I get an error could not set
sample rate 4100. In The transceiver option ASIO sound card section the
driver is not visible and not in the drop down.
The sound card is a sound blaster live and the pc is a P4 running
windows XP pro with 2 gigs of memory.
I do not know if I have missed something in the setup.
Any help would be great.
Thank you
Jay Mason
N3OW

1352. Re: [kgksdr] qustion : new to SDR and kgksdr

Yahoo group: kgksdr
Date: 2008-07-12 16:53:22 UTC
From: Duncan Munro
Topic: 1351 Message: 1352

Jay wrote:
> I am trying to get my softrock rx/tx 6.2 working.
> I have it working with winsdr but it does not allow me to change bands.
> The issue I a having with kgksdr is that I get an error could not set
> sample rate 4100. In The transceiver option ASIO sound card section the
> driver is not visible and not in the drop down.
> The sound card is a sound blaster live and the pc is a P4 running
> windows XP pro with 2 gigs of memory.
> I do not know if I have missed something in the setup.
> Any help would be great.

Hi Jay,

What version of ASIO4ALL are you using?

73,

Duncan
M0KGK

1353. Re: qustion : new to SDR and kgksdr

Yahoo group: kgksdr
Date: 2008-07-13 17:31:55 UTC
From: Jay
Topic: 1351 Message: 1353

What version of ASIO4ALL I am not using ASIO were do I find it?

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Jay wrote:
> > I am trying to get my softrock rx/tx 6.2 working.
> > I have it working with winsdr but it does not allow me to change
bands.
> > The issue I a having with kgksdr is that I get an error could not
set
> > sample rate 4100. In The transceiver option ASIO sound card
section the
> > driver is not visible and not in the drop down.
> > The sound card is a sound blaster live and the pc is a P4 running
> > windows XP pro with 2 gigs of memory.
> > I do not know if I have missed something in the setup.
> > Any help would be great.
>
> Hi Jay,
>
> What version of ASIO4ALL are you using?
>
> 73,
>
> Duncan
> M0KGK
>

1354. Re: [kgksdr] Re: qustion : new to SDR and kgksdr

Yahoo group: kgksdr
Date: 2008-07-13 18:13:42 UTC
From: Duncan Munro
Topic: 1351 Message: 1354

Jay wrote:
> What version of ASIO4ALL I am not using ASIO were do I find it?

http://www.asio4all.com/

1355. Re: qustion : new to SDR and kgksdr next question

Yahoo group: kgksdr
Date: 2008-07-13 22:35:15 UTC
From: Jay
Topic: 1351 Message: 1355

how do I set a different center freq than the default. also is there a documentation file on this software.
Again thank you I an now getting signals with the softeare.
Thanks
Jay

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Jay wrote:
> > What version of ASIO4ALL I am not using ASIO were do I find it?
>
> http://www.asio4all.com/
>

1356. QRSs, SlowHell, Hellscreiber modes

Yahoo group: kgksdr
Date: 2008-07-15 18:00:30 UTC
From: Bruce Conner
Topic: 1356 Message: 1356

Duncan,

I'm interested in using my Softrock RXTXv6.2 for some QRPp work on various modes like QRSs, SlowHell, and Hellscreiber. What would be the best way to approach this?

I have a Delta 44 soundcard, but there is also an onboard sound card available on the computer, and I was wondering if there might be a way to drive KGKSDR using an external program like IZ8BLY's Hellschreiber application. I fooled around with it a little, but was getting com port conflicts and strangeness. I thought I would just ask if you had any ideas before I went in and fried anything by putting a birdsnest of jumpers all over.

Of course, it would be even better if these modes were incorporated into KGKSDR! :') Even a QRSs keyer function would be a real nice item. Any chance this could be done?

73,
Bruce
WB8OGK

1357. Re: [kgksdr] QRSs, SlowHell, Hellscreiber modes

Yahoo group: kgksdr
Date: 2008-07-15 18:05:52 UTC
From: Duncan Munro
Topic: 1356 Message: 1357

Bruce Conner wrote:
> Duncan,
>
> I'm interested in using my Softrock RXTXv6.2 for some QRPp work on
> various modes like QRSs, SlowHell, and Hellscreiber. What would be
> the best way to approach this?

Hi Bruce,

Currently, the way to do this would be with cables connecting the 2 sound cards. I'm not sure if Virtual Audio Cable will work with the ASIO drivers but may be wrong, I haven't risked trying it.

> Of course, it would be even better if these modes were incorporated
> into KGKSDR! :') Even a QRSs keyer function would be a real nice item.
> Any chance this could be done?

The next version (if I ever get round it it!) will have mode plugins so they can be written by third parties. That's the only viable way forward as I would never get the time to turn the software into another MixW (for example).

73,

Duncan
M0KGK

1358. Re: [kgksdr] Re: qustion : new to SDR and kgksdr next question

Yahoo group: kgksdr
Date: 2008-07-15 18:11:39 UTC
From: Duncan Munro
Topic: 1351 Message: 1358

Jay wrote:
> how do I set a different center freq than the default. also is there a
> documentation file on this software.
> Again thank you I an now getting signals with the softeare.

Hi Jay, if you press F1 for help it will give a lot of info on setting
up the different centre frequencies etc.

Let me know if anything is not clear in the help file.

73,

Duncan
M0KGK

1359. Support for other SDR's

Yahoo group: kgksdr
Date: 2008-07-29 16:41:56 UTC
From: Tom Rohrs
Topic: 1359 Message: 1359

Hi all,

Can KGKSDR be used to control other SDR hardware, e.g. the Elektor SDR-USB (2007-5)?

If not, is it feasible and could it be added to the list of proposed features?

Other software (WinRad,SDRadio,G8JCFSDR,SoDiRa) already support the Elektor unit, but I really like the layout and features of KGKSDR and believe it would be ideal for the Elektor.

Regards

-Tom-

1360. Cal question

Yahoo group: kgksdr
Date: 2008-08-02 17:05:12 UTC
From: Jay
Topic: 1360 Message: 1360

I have a softrock 6.3 30/40 meter that is working fine as far as I can tell.
The issue is that when I go to the calibration window for the kgksdr software ass I get is a flat line.
The sound card is a sound Blaster live value card.
The PCD is a P4 2.4 gig running 1.24 gig of ram with windows XP PRO sp2.
Is there some I am missing as to being able to cal the software? The Software seems to work fine it here's well and does not have any noise issues that I have had trying to use the rocky program.
Thank you for any ideas.
Jay Mason N3OW

1361. German help

Yahoo group: kgksdr
Date: 2008-08-05 21:06:04 UTC
From: Eike, DM3ML
Topic: 1361 Message: 1361

Hi friends,
as done with other famous freeware programs e.g. LOGGER32, DXLab, HRD
etc. I have translated the help for KGKSDR into the german language.
The zipped PDF-file (abt 700 kB and 31 pages) can be found at
http://www.mydarc.de/dm3ml
Use the link to 'Deutsche Hilfen' and you will get a list of
translated german help files including the KGKSDR help.
A great 'thank you' to Duncan, M0KGK, for KGKSDR which is doing an
excellent job together with my latest homebrew project the SDR-Kit
from Klaus, DM2CQL.
73s de Eike, DM3ML

1362. DRM

Yahoo group: kgksdr
Date: 2008-08-12 16:12:16 UTC
From: kanewderfish
Topic: 1362 Message: 1362

Hi gang,
Is it possible to use kgksdr to decode a DRM broadcast? I'm thinking something along the lines of using loop.dll, kgksdr and multipsk for psk, rtty, etc.
Thanks and 72

Bob

1363. Strange software behavior

Yahoo group: kgksdr
Date: 2008-08-15 13:44:32 UTC
From: Bruce Conner
Topic: 1363 Message: 1363

I've got a problem that I'm trying to trace. It may be hardware, but it may be software.

I'm using various Softrock rigs, but the symptoms are universal, and it even seems to happen with NO rig attached, so I'm thinking it's in the computer someplace. One clue is that I'm seeing problems with both KGKSDR and Rocky, although the problems manifest themselves somewhat differently.

Here's what's been happening. I hook up the rig, start KGKSDR. Sometimes it seems to work fine for a while, other times I can't get anything to happen when I press the key. If it is working at first, it then will occasionally "blip" the TX on even if I'm nowhere near the rig. (does this with no rig attached too) However, it will eventually lock the TX on, and it often can't be turned off without closing the program.

Rocky usually fails in a mode where the key has no effect at all, but it will also sometimes go to TX locked on mode for no reason.

Since it will do this without any cables being attached (I've even removed them from the computer to eliminate the possibility of a bad serial cable), it looks like the serial port is causing the problem by sending spurious signals. It's almost as if something is polling, but not on a regular basis. I see a very short net access associated with the TX "blips" when I watch in ZoneAlarm or the process viewer. This XP machine has been checked for malware, done updates, etc. So could this just be a symptom of a com port going bad? They are on the MB, so there are no loose internal cables. If the MB com ports are bad, can I use a replacement serial port PCI card, or will the speed not be good enough?

I do see a "bad" COM port in the device manager from time to time, but it seems to fix itself. My floppy drive also is showing up as having a problem, which is new. Any relation?

I've done a loopback test, and it acts almost like there is an interrupt conflict and something else wants the port. The echo shows letters, but after the first letter there is a BIG time delay, that varies.

Another data point - I was attempting to hook up a bitwacker to the USB port a while ago, and the problems started sometime around then, but I'm not sure if it actually started then or not. I was having huge problems with the USB port not recognizing the bitwacker and abandoned the effort.

Sorry to be all over the map with the description, but I'm just trying to give the whole scene in case something significant has escaped me.

Any ideas what to try to narrow this down? I want my radio working again!

Bruce
WB8OGK

1364. Re: [kgksdr] Strange software behavior

Yahoo group: kgksdr
Date: 2008-08-15 13:51:26 UTC
From: Jose Bonanca
Topic: 1363 Message: 1364
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1365. Newbie question

Yahoo group: kgksdr
Date: 2008-08-16 21:41:14 UTC
From: Vaclav Peroutka
Topic: 1365 Message: 1365

Hello,

today I started with experiments with SDR. On my linux machineI installed KGKSDR receiver. I built ZetaSDR and tested it with external generator. But in KGKSDR I see symetrical spectrum. It looks like there is some problem with I/Q mixing.

How can I test where is the problem ? It can be either my hardware (but I/Q oscillaator works and on both outputs there is some kind of sound) or problem with KGKSDR-Wine-ALSA chain.

If I run some sound card oscilloscope - can I see some difference between L and R channels ?

Thank you in advance,
Vaclav

1366. Re: Newbie question

Yahoo group: kgksdr
Date: 2008-08-17 22:08:50 UTC
From: Peter
Topic: 1365 Message: 1366

Vaclav

I am no expert with KGKSDR or SDR, but I had a similar problem to you when first using KGKSDR.

I used a "Sound Blaster" sound card and couldnt get rid of the mirror immage.

However changing the "Sampling" for the Reciever IQ input to "Delay Right by One Sample" solved the problem.

I understand that some soundcards sample Left and Right with sample delays of up to 5 samples between channels.

KGKSDR enables a correction of up to one sample either way.

Worth a try, or check other SDR forums for information on your soundcard.

Regards

Peter
G0RSQ

--- In kgksdr@yahoogroups.com, Vaclav Peroutka <vaclavpe@...> wrote:
>
> Hello,
>
> today I started with experiments with SDR. On my linux machineI installed KGKSDR receiver. I built ZetaSDR and tested it with external generator. But in KGKSDR I see symetrical spectrum. It looks like there is some problem with I/Q mixing.
>
> How can I test where is the problem ? It can be either my hardware (but I/Q oscillaator works and on both outputs there is some kind of sound) or problem with KGKSDR-Wine-ALSA chain.
>
> If I run some sound card oscilloscope - can I see some difference between L and R channels ?
>
> Thank you in advance,
> Vaclav
>

1367. Calibration maps.

Yahoo group: kgksdr
Date: 2008-08-19 11:15:06 UTC
From: Des
Topic: 1367 Message: 1367

Hi Duncan and the group,

I have recently upgraded the shack computer from a 1.4 GHz system to a 2.8 GHz system which also has additional memory.

The hope is that the new system will run SDR software more smoothly and with some cpu time to spare. In the old system KGKSDR would show 98% to 100% when sampling at 96 kHz, the new system has not been tested yet but should be better.

My question is this, if I keep all of my SDR radio installation identical (cables, Sofrock receiver etc) and transfer the sound card from the old system to the new system then would it be possible to use the old calibration maps for amplitude/phase correction by transfering the relavent files from the old system to the new system? At some point I will create a fresh set of claibration maps but wondered if I might use the old ones as a starting point.

73,s

Des (M0AYF)

http://www.qrss.thersgb.net/

Send instant messages to your online friends http://uk.messenger.yahoo.com

1368. Re: [kgksdr] Calibration maps.

Yahoo group: kgksdr
Date: 2008-08-19 11:34:39 UTC
From: Duncan Munro
Topic: 1367 Message: 1368

Des wrote:

> My question is this, if I keep all of my SDR radio installation identical (cables, Sofrock receiver etc) and transfer the sound card from the old system to the new system then would it be possible to use the old calibration maps for amplitude/phase correction by transfering the relavent files from the old system to the new system? At some point I will create a fresh set of claibration maps but wondered if I might use the old ones as a starting point.

Hi Des,

Yes, they will still be valid if you are keeping the same setup
including soundcard.

73,

Duncan
M0KGK

1369. Re: Calibration maps.

Yahoo group: kgksdr
Date: 2008-08-19 15:57:16 UTC
From: Des
Topic: 1367 Message: 1369

Hi again Duncan and the group,

Many thanks for the swift answer to my question.

73,s

Des. (M0AYF)

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Des wrote:
>
> > My question is this, if I keep all of my SDR radio installation identical (cables, Sofrock receiver etc) and transfer the sound card from the old system to the new system then would it be possible to use the old calibration maps for amplitude/phase correction by transfering the relavent files from the old system to the new system? At some point I will create a fresh set of claibration maps but wondered if I might use the old ones as a starting point.
>
> Hi Des,
>
> Yes, they will still be valid if you are keeping the same setup
> including soundcard.
>
> 73,
>
> Duncan
> M0KGK
>

1370. Re: Strange software behavior

Yahoo group: kgksdr
Date: 2008-08-26 22:44:32 UTC
From: Bruce Conner
Topic: 1363 Message: 1370

--- In kgksdr@yahoogroups.com, "Jose Bonanca" <jbct1aos@...> wrote:
>
> seems a neat power supllier can solve it... check for stable 5 v.
>
> and as you are at it check also the other power .
>

Jose, you were right! I was the power supply. It was just barely undervoltage, and only for brief moments, so it was hard to trace. A new power supply has fixed the problem. Thanks for your help!

So to anyone else seeing odd serial port behavior, check your power supply.

73
Bruce
WB8OGK

1371. Re: [kgksdr] Re: Strange software behavior

Yahoo group: kgksdr
Date: 2008-08-27 07:27:44 UTC
From: Jose Bonanca
Topic: 1363 Message: 1371
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1372. Re: Strange software behavior

Yahoo group: kgksdr
Date: 2008-09-05 17:40:54 UTC
From: freeepistol
Topic: 1363 Message: 1372

Bruce,

I seem to remember you massaging some pretty fast CW out of a Johnson Viking with a Drake 2A for RX!

Cheers!

Dwight
N5WRW

1373. Anyone using this s/w with Asus eeePC?

Yahoo group: kgksdr
Date: 2008-09-06 10:43:45 UTC
From: dombaines
Topic: 1373 Message: 1373

Hi,

I have just started to use this s/w with eeePC and the sub GHz CPU is limiting the capabilities. Has anyone else started to use the eeePC.

Running XP (my install over Linux), 2GB RAM, 4GB SSD and 8GB SD.
Running either internal sound card or USB Soundblaster 24 bit.

Only RX right now Softrock-lite 20m RX but have a selection of softrock RX that cover the HF bands (and 500kHz) and some TXRX so might be interesting to share notes. Anyone used a Firefly 20m with this software?

72

Dom
M1KTA

1374. Re: Strange software behavior

Yahoo group: kgksdr
Date: 2008-09-06 16:04:25 UTC
From: Bruce Conner
Topic: 1363 Message: 1374

> Bruce,
>
> I seem to remember you massaging some pretty fast CW out of a
Johnson Viking with a Drake 2A for RX!
>
> Cheers!
>
> Dwight
> N5WRW

30 years since he was my roommate in that dorm, and he *still* lusts after my Drake 2A. :') Believe it or not, I still have that Drake AND that horrible clackity-clack tube based keyer monstrosity. I prefer a straight key or a bug and KGKSDR these days though.

Great to see you are still a ham after all these years. I'll contact you off the list.

73,
Bruce
WB8OGK

1375. Re: Anyone using this s/w with Asus eeePC?

Yahoo group: kgksdr
Date: 2008-09-12 23:07:26 UTC
From: gw8lxo
Topic: 1373 Message: 1375

Dom,

I have access to a basic 4G version EEE pc and hope to give it a go shortly.

Can I ask what results have you been getting so far?

I dont know if this will help but there is a windows utility eeectl to increase the CPU speed and FSB

http://www.cpp.in/dev/eeectl/

Although the CPU is a GHz model it is run around 600MHz

There is a writeup about the different methods of overclocking the EEE Pc at:

http://www.cyb3rglitch.com/tutorials/Overclock-EeePC/

73's

Mike

--- In kgksdr@yahoogroups.com, "dombaines" <dombaines@...> wrote:
>
> Hi,
>
> I have just started to use this s/w with eeePC and the sub GHz CPU is
> limiting the capabilities. Has anyone else started to use the eeePC.
>
> Running XP (my install over Linux), 2GB RAM, 4GB SSD and 8GB SD.
> Running either internal sound card or USB Soundblaster 24 bit.
>
> Only RX right now Softrock-lite 20m RX but have a selection of softrock
> RX that cover the HF bands (and 500kHz) and some TXRX so might be
> interesting to share notes. Anyone used a Firefly 20m with this
> software?
>
> 72
>
> Dom
> M1KTA
>

1376. Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-09-24 05:30:29 UTC
From: Janne Pulkkinen
Topic: 1376 Message: 1376

SDR-ish HIs to everybody!

Duncan might be the right person to answer this, but since there is change that someone will notice the same thing, I'll post it here:

Yesterday, doing a routine IQ balance check (amplitude and phase) on transmission, I noticed that there might be small chance that the pahse and amplitude corrections don't apply to TUNE -function.

I resetted all the calibration values and redid the calibration. I could get really decent image rejection (TX) on USB and LSB just whisteling and going through the whole spectrum but on TUNE the image appears all the place. Haven't tested it on CW yet.

Is this possible? :)

73 de Janne, OH1GTF

1377. Re: Anyone using this s/w with Asus eeePC?

Yahoo group: kgksdr
Date: 2008-09-26 09:28:42 UTC
From: dombaines
Topic: 1373 Message: 1377

Mike,

Apologies... absence from group so missed your post.

My results have been mixed but not dedicating time to it at present.
I have just finished building a new 40/80 TXRX so will give it a try
this w/e with the links you mention.

72

Dom
M1KTA

--- In kgksdr@yahoogroups.com, "gw8lxo" <gw8lxo@...> wrote:
>
> Dom,
>
> I have access to a basic 4G version EEE pc and hope to give it a go
> shortly.
>
> Can I ask what results have you been getting so far?
>
> I dont know if this will help but there is a windows utility eeectl
> to increase the CPU speed and FSB
>
> http://www.cpp.in/dev/eeectl/
>
> Although the CPU is a GHz model it is run around 600MHz
>
> There is a writeup about the different methods of overclocking the
EEE
> Pc at:
>
> http://www.cyb3rglitch.com/tutorials/Overclock-EeePC/
>
> 73's
>
> Mike
>
>
>
>
> --- In kgksdr@yahoogroups.com, "dombaines" <dombaines@> wrote:
> >
> > Hi,
> >

> > I have just started to use this s/w with eeePC and the sub GHz
CPU is
> > limiting the capabilities. Has anyone else started to use the
eeePC.
> >
> > Running XP (my install over Linux), 2GB RAM, 4GB SSD and 8GB SD.
> > Running either internal sound card or USB Soundblaster 24 bit.
> >
> > Only RX right now Softrock-lite 20m RX but have a selection of
softrock
> > RX that cover the HF bands (and 500kHz) and some TXRX so might be
> > interesting to share notes. Anyone used a Firefly 20m with this
> > software?
> >
> > 72
> >
> > Dom
> > M1KTA
> >
>

1378. Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-10-01 09:12:04 UTC
From: Janne Pulkkinen
Topic: 1376 Message: 1378

I did some further studies:

I can easily achieve TX image rejection of -60dBc to -70dBc in the manual TX manual cal procedure. I've calibrated the whole 96kHz spectrum, besides the extreme L and R and center of the spectrum (few kHz away). I've also remembered to press the save button after each calibration point.

And when I check the calibration maps, they look ok. Nice curves with nothing special. But when I leave the calibration procedure and use either tune, or just whistle on USB the Image rejection is only in the range of -30dBc through the whole spectrum. My SDR TRX outputs 16W, so basically I'm on illegal side with image of -30dBc which is 16mW.

The only thing I might have done differently (just checking the KGKSDR help file, again) is that I haven't unchecked the TX on -checkbox after each calibration point. Do I really have to uncheck it everytime?

For monitoring my images, I've used my second SDR receiver/computer which has image supression around -70dBc to -80dBc. And I've also checked the images with FT757GX.

Any similar experiences, or am I still doing something wrong?

73 de Janne, OH1GTF

1379. Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-10-03 04:55:26 UTC
From: Janne Pulkkinen
Topic: 1376 Message: 1379

Once again more studies and testing done.

>The only thing I might have done differently (just checking the
>KGKSDR help file, again) is that I haven't unchecked the TX on -
>checkbox after each calibration point. Do I really have to uncheck it
>everytime?

Even tried this and it didn't have any effect. I can slide the
frequency slider and have at least -60dBc image when I'm on the manual
cal procedure and have done all the calibaration points. But when I
exit the manual cal, the image is back, which is around -30dBc.

How can I check if the values were saved correctly to the calibration
file?

Please any advice would be appreciated since I've done all that I can.

73 de Janne, OH1GTF

1380. Re: [kgksdr] Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-10-03 12:44:50 UTC
From: Duncan Munro
Topic: 1376 Message: 1380

Janne Pulkkinen wrote:

> How can I check if the values were saved correctly to the calibration
> file?
>
> Please any advice would be appreciated since I've done all that I can.

Hi Janne, I will have a bit of time tomorrow to look at this. If you don't hear anything on the group here by about 1800 UK time, please send me a reminder.

73,

Duncan
M0KGK

1381. KGKSDR and MMSSTV / MMTTY

Yahoo group: kgksdr
Date: 2008-10-05 15:45:50 UTC
From: cesco12342000
Topic: 1381 Message: 1381

This needs kgksdr and loop.dll set up and running. It does only work in RX yet ... if there is intrest i might do the TX as well.

Instructions here:
http://hammap.smallcpu.org/mmsstv/

Choose "SDR loop device" in MMSSTV to connect to KGKSDR.

73, Cesco

1382. Re: [kgksdr] KGKSDR and MMSSTV / MMTTY

Yahoo group: kgksdr
Date: 2008-10-08 05:23:16 UTC
From: Janne Pulkkinen
Topic: 1381 Message: 1382

Cesco,

 Is there interest? Well heck, sure there is! I've used MMSSTV with my traditional radios and been really happy with it. If there is even a chance to get MMSSTV and KGKSDR RX/TX together that would be awesome! At least I'm looking foward that!

73 de Janne, OH1GTF

--- On Sun, 10/5/08, cesco12342000 <cesco1@...> wrote:

From: cesco12342000 <cesco1@tiscali.ch>
Subject: [kgksdr] KGKSDR and MMSSTV / MMTTY
To: kgksdr@yahoogroups.com
Date: Sunday, October 5, 2008, 11:45 AM

This needs kgksdr and loop.dll set up and running. It does only work in RX yet ... if there is intrest i might do the TX as well.

Instructions here:
http://hammap. smallcpu. org/mmsstv/

Choose "SDR loop device" in MMSSTV to connect to KGKSDR.

73, Cesco

1383. Re: KGKSDR and MMSSTV / MMTTY

Yahoo group: kgksdr
Date: 2008-10-08 08:48:29 UTC
From: cesco12342000
Topic: 1381 Message: 1383

```
>  Is there interest? Well heck, sure there is!

It's currently in beta-test. rx + tx working for mmsstv.
You can get it in the mmvari yahoo group files section.
```

1384. Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-23 18:21:56 UTC
From: Uli
Topic: 1384 Message: 1384

Hello,
have a problem with transmitting CW.
My notebook has no RS232 interface, so I use a RS232 PCMCIA card from
EXSYS type EX-1350. After installation it has got COM5.
I testet the serial interface with HyperTerminal and it works with
COM5. COM1 to COM4 are in use, but I don't know why.

The settings of Ports in Transceiver Options:
COMPort: COM5
Hand key: CTS
Dit: DCD
PTT in: DSR
Common HIGH: RTS
PTT to TX: DTR

Common HIGH is abt 5V
If I connect CTS and RTS with wire nothing happens. DTR is on minus 5V
CW monitor style is set to TXmonitor.

Any ideas ?
many thanks for your help.

73
Uli
DF5SF

1385. Problems with CW (Part 2)

Yahoo group: kgksdr
Date: 2008-10-23 20:15:24 UTC
From: Uli
Topic: 1385 Message: 1385

Hello,
now I checked the signal CTS and DSR with the
Serial Port Monitor 4.0 by Eltima Software.
CTS and DSR are changing so my hardware seems all ok, but nothing
happens with kgksdr. I have version 1.1.0.63.

Please help

Thanks
73
Uli
DF5SF

Hello,
have a problem with transmitting CW.
My notebook has no RS232 interface, so I use a RS232 PCMCIA card from
EXSYS type EX-1350. After installation it has got COM5.
I testet the serial interface with HyperTerminal and it works with
COM5. COM1 to COM4 are in use, but I don't know why.

The settings of Ports in Transceiver Options:
COMPort: COM5
Hand key: CTS
Dit: DCD
PTT in: DSR
Common HIGH: RTS
PTT to TX: DTR

Common HIGH is abt 5V
If I connect CTS and RTS with wire nothing happens. DTR is on minus 5V
CW monitor style is set to TXmonitor.

Any ideas ?
many thanks for your help.

1386. Re: [kgksdr] Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-23 22:37:39 UTC
From: Duncan Munro
Topic: 1384 Message: 1386

Uli wrote:
> Hello,
> have a problem with transmitting CW.
> My notebook has no RS232 interface, so I use a RS232 PCMCIA card from
> EXSYS type EX-1350. After installation it has got COM5.
> I testet the serial interface with HyperTerminal and it works with
> COM5. COM1 to COM4 are in use, but I don't know why.
>
> The settings of Ports in Transceiver Options:
> COMPort: COM5
> Hand key: CTS
> Dit: DCD
> PTT in: DSR
> Common HIGH: RTS
> PTT to TX: DTR
>
> Common HIGH is abt 5V
> If I connect CTS and RTS with wire nothing happens. DTR is on minus 5V
> CW monitor style is set to TXmonitor.
>
> Any ideas ?
> many thanks for your help.

Hi Uli, can you get a meter and measure the voltages on the RTS and CTS pins while you are keying?

As an aside, COM1 - COM4 are reserved for internal serial port hardware and they have been that way for the last 28 years. This goes back to the very basic IBM PC, no need to worry, your external hardware will work out a new port address for you.

73,

Duncan
M0KGK

1387. Re: Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-24 19:33:26 UTC
From: Uli
Topic: 1384 Message: 1387

Hello Duncan,
thanks for your help.
First I installed all new - Windows XP SP2 and all drivers.
The RS232-PCMCIA is now COM4 and IRQ7.
Now I soldered resistors (1k pull up) from DTR to DSR and from DTR to CTS.
DTR is abt. 5.8V, CTS and DSR abt 5.4V. If I connect CTS or DSR with
GND (Pin5) nothing happens. Same procedure as yesterday ...

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Uli wrote:
> > Hello,
> > have a problem with transmitting CW.
> > My notebook has no RS232 interface, so I use a RS232 PCMCIA card from
> > EXSYS type EX-1350. After installation it has got COM5.
> > I testet the serial interface with HyperTerminal and it works with
> > COM5. COM1 to COM4 are in use, but I don't know why.
> >
> > The settings of Ports in Transceiver Options:
> > COMPort: COM5
> > Hand key: CTS
> > Dit: DCD
> > PTT in: DSR
> > Common HIGH: RTS
> > PTT to TX: DTR
> >
> > Common HIGH is abt 5V
> > If I connect CTS and RTS with wire nothing happens. DTR is on
minus 5V
> > CW monitor style is set to TXmonitor.
> >
> > Any ideas ?
> > many thanks for your help.
>
> Hi Uli, can you get a meter and measure the voltages on the RTS and CTS
> pins while you are keying?
>
> As an aside, COM1 - COM4 are reserved for internal serial port hardware
> and they have been that way for the last 28 years. This goes back to
> the very basic IBM PC, no need to worry, your external hardware will
> work out a new port address for you.

>
> 73,
>
> Duncan
> M0KGK
>

1388. Re: Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-24 20:06:05 UTC
From: Uli
Topic: 1384 Message: 1388

Hello Duncan,
with the paddle keyer test rig V0.3 it WORKS (but the tone is terrible)
Have I missed something in the configuration of kgksdr V1.1

Tnx
73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hello Duncan,
> thanks for your help.
> First I installed all new - Windows XP SP2 and all drivers.
> The RS232-PCMCIA is now COM4 and IRQ7.
> Now I soldered resistors (1k pull up) from DTR to DSR and from DTR
to CTS.
> DTR is abt. 5.8V, CTS and DSR abt 5.4V. If I connect CTS or DSR with
> GND (Pin5) nothing happens. Same procedure as yesterday ...
>
> 73
> Uli
> DF5SF
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > Uli wrote:
> > > Hello,
> > > have a problem with transmitting CW.
> > > My notebook has no RS232 interface, so I use a RS232 PCMCIA card
from
> > > EXSYS type EX-1350. After installation it has got COM5.
> > > I testet the serial interface with HyperTerminal and it works with
> > > COM5. COM1 to COM4 are in use, but I don't know why.
> > >
> > > The settings of Ports in Transceiver Options:
> > > COMPort: COM5
> > > Hand key: CTS
> > > Dit: DCD
> > > PTT in: DSR
> > > Common HIGH: RTS
> > > PTT to TX: DTR
> > >
> > > Common HIGH is abt 5V
> > > If I connect CTS and RTS with wire nothing happens. DTR is on

> minus 5V
> > > CW monitor style is set to TXmonitor.
> > >
> > > Any ideas ?
> > > many thanks for your help.
> >
> > Hi Uli, can you get a meter and measure the voltages on the RTS
and CTS
> > pins while you are keying?
> >
> > As an aside, COM1 - COM4 are reserved for internal serial port
hardware
> > and they have been that way for the last 28 years. This goes back to
> > the very basic IBM PC, no need to worry, your external hardware will
> > work out a new port address for you.
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
>

1389. Re: [kgksdr] Re: Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-25 10:11:07 UTC
From: Duncan Munro
Topic: 1384 Message: 1389

Uli wrote:
> Hello Duncan,
> thanks for your help.
> First I installed all new - Windows XP SP2 and all drivers.
> The RS232-PCMCIA is now COM4 and IRQ7.
> Now I soldered resistors (1k pull up) from DTR to DSR and from DTR to CTS.
> DTR is abt. 5.8V, CTS and DSR abt 5.4V. If I connect CTS or DSR with
> GND (Pin5) nothing happens. Same procedure as yesterday ...

Hi Uli, thanks for checking those voltages. From your config settings:

>>> The settings of Ports in Transceiver Options:
>>> COMPort: COM5
>>> Hand key: CTS
>>> Dit: DCD
>>> PTT in: DSR
>>> Common HIGH: RTS
>>> PTT to TX: DTR

The config looks different to the wiring you are using, that may be the problem. You can ignore the dit for now as paddle is not implemented on KGKSDR just yet, it's hand key or external keyer only.

I've just gone back and checked the diagram, and I think pullup resistors were removed from the diagram some time ago (although were used for the keyer test software which preceded transmitting versions of KGKSDR).

Can you check the wiring against the diagram in KGKSDR which you can get from the Help menu, it's Help | Connections. If you set the serial port up to match these settings, it should work OK.

73,

Duncan
M0KGK

1390. Re: Problem with CW ?

Yahoo group: kgksdr
Date: 2008-10-25 10:46:50 UTC
From: Uli
Topic: 1384 Message: 1390

Hello Duncan,
yes I have forgotten to mention that I have changed my configuration.
In the Photo area -> DF5SF you see my settings.
CTS and DSR work with the keyer test software, but not with kgksdr.

Many thanks for your help.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Uli wrote:
> > Hello Duncan,
> > thanks for your help.
> > First I installed all new - Windows XP SP2 and all drivers.
> > The RS232-PCMCIA is now COM4 and IRQ7.
> > Now I soldered resistors (1k pull up) from DTR to DSR and from DTR
to CTS.
> > DTR is abt. 5.8V, CTS and DSR abt 5.4V. If I connect CTS or DSR with
> > GND (Pin5) nothing happens. Same procedure as yesterday ...
>
> Hi Uli, thanks for checking those voltages. From your config settings:
>
> >>> The settings of Ports in Transceiver Options:
> >>> COMPort: COM5
> >>> Hand key: CTS
> >>> Dit: DCD
> >>> PTT in: DSR
> >>> Common HIGH: RTS
> >>> PTT to TX: DTR
>
> The config looks different to the wiring you are using, that may be the
> problem. You can ignore the dit for now as paddle is not
implemented on
> KGKSDR just yet, it's hand key or external keyer only.
>
> I've just gone back and checked the diagram, and I think pullup
> resistors were removed from the diagram some time ago (although were
> used for the keyer test software which preceded transmitting
versions of
> KGKSDR).
>
> Can you check the wiring against the diagram in KGKSDR which you can
get

> from the Help menu, it's Help | Connections. If you set the serial port
> up to match these settings, it should work OK.
>
> 73,
>
> Duncan
> M0KGK
>

1391. Re: Problem with CW ? SOLVED !!!!!!!!

Yahoo group: kgksdr
Date: 2008-10-29 20:43:36 UTC
From: Uli
Topic: 1384 Message: 1391

Hello Duncan
now I am happy. IT WORKS !!!!!
I have forgotten to select a soundcard in Mic Input and TX IQ output.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hello Duncan,
> yes I have forgotten to mention that I have changed my configuration.
> In the Photo area -> DF5SF you see my settings.
> CTS and DSR work with the keyer test software, but not with kgksdr.
>
> Many thanks for your help.
>
> 73
> Uli
> DF5SF
>
>
> --- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@> wrote:
> >
> > Uli wrote:
> > > Hello Duncan,
> > > thanks for your help.
> > > First I installed all new - Windows XP SP2 and all drivers.
> > > The RS232-PCMCIA is now COM4 and IRQ7.
> > > Now I soldered resistors (1k pull up) from DTR to DSR and from DTR
> to CTS.
> > > DTR is abt. 5.8V, CTS and DSR abt 5.4V. If I connect CTS or DSR with
> > > GND (Pin5) nothing happens. Same procedure as yesterday ...
> >
> > Hi Uli, thanks for checking those voltages. From your config
settings:
> >
> > >>> The settings of Ports in Transceiver Options:
> > >>> COMPort: COM5
> > >>> Hand key: CTS
> > >>> Dit: DCD
> > >>> PTT in: DSR
> > >>> Common HIGH: RTS
> > >>> PTT to TX: DTR
> >

> > The config looks different to the wiring you are using, that may
be the
> > problem. You can ignore the dit for now as paddle is not
> implemented on
> > KGKSDR just yet, it's hand key or external keyer only.
> >
> > I've just gone back and checked the diagram, and I think pullup
> > resistors were removed from the diagram some time ago (although were
> > used for the keyer test software which preceded transmitting
> versions of
> > KGKSDR).
> >
> > Can you check the wiring against the diagram in KGKSDR which you can
> get
> > from the Help menu, it's Help | Connections. If you set the serial
> port
> > up to match these settings, it should work OK.
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
>

1392. Re: Problem with CW ? SOLVED !!!!!!!!

Yahoo group: kgksdr
Date: 2008-10-30 10:26:54 UTC
From: Duncan Munro
Topic: 1384 Message: 1392

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hello Duncan
> now I am happy. IT WORKS !!!!!
> I have forgotten to select a soundcard in Mic Input and TX IQ output.

Hi Uli, I feel quite bad, this is the first question I should have
asked as lack of mic will stop CW working!

73,

Duncan
M0KGK

1393. PSK31

Yahoo group: kgksdr
Date: 2008-10-31 19:03:23 UTC
From: daniwachs
Topic: 1393 Message: 1393

i am looking for information on how to use KGKSDR with winpsk 2.13.
thank you.
dani 4X1DM

1394. KGKSDR and VMWare ESx

Yahoo group: kgksdr
Date: 2008-11-06 16:25:10 UTC
From: Uli
Topic: 1394 Message: 1394

```
Hi,
has anyone experience with KGKSDR V1.1 under VMWare ESx ???

Tnx

73
Uli
DF5SF
```

1395. kgksdr v1.1 and mixw2

Yahoo group: kgksdr
Date: 2008-11-09 08:32:45 UTC
From: Uli
Topic: 1395 Message: 1395

hello,
I like to work also in digital modes (PSK31, Olivia ...).
Is there a possibility to connect mixw2 to kgksdr in receive and
transmit mode. If yes, please give me a short instruction.

Many thanks

73
Uli
DF5SF

1396. Problem with manual calibration V1.1

Yahoo group: kgksdr
Date: 2008-11-19 19:15:37 UTC
From: Uli
Topic: 1396 Message: 1396

Hello,
in Calibration Options only Manual is checked.
Now in Options -> Set RX manual cal point... I calibrate every 2 kc
and get a SIR of better than 80dB. I stop the calibration procedure
with OK. After this the image frequency is going up to the signal
level before calibration.
Whats the error ?

Many thanks for your help.

73
Uli
DF5SF

1397. CPU - best choice ?

Yahoo group: kgksdr
Date: 2008-11-22 09:41:54 UTC
From: Uli
Topic: 1397 Message: 1397

```
Hi,
I have the possibility to upgrade my motherboard.
Now what is the best choice for KGKSDR transceiver

- Intel Core2Duo 2x3GHz
- Intel Core2Quad 4x2.5GHz

Any suggestions or experience ?

73
Uli
DF5SF
```

1398. Re: [kgksdr] CPU - best choice ?

Yahoo group: kgksdr
Date: 2008-11-22 10:31:14 UTC
From: Duncan Munro
Topic: 1397 Message: 1398

Uli wrote:
> Hi,
> I have the possibility to upgrade my motherboard.
> Now what is the best choice for KGKSDR transceiver
>
> - Intel Core2Duo 2x3GHz
> - Intel Core2Quad 4x2.5GHz
>
> Any suggestions or experience ?

Hi Uli,

It's a close call, KGKSDR runs a single thread for the most part so my initial choice would be 2x3, but there is always other stuff running on the machine so I'm not sure.

If you have colleagues or friends with these machines you could try KGKSDR and check the task manager for an accurate CPU estimate and compare notes.

73,

Duncan
M0KGK

1399. Re: [kgksdr] Problem with manual calibration V1.1

Yahoo group: kgksdr
Date: 2008-11-22 10:38:22 UTC
From: Duncan Munro
Topic: 1396 Message: 1399

Uli wrote:
> Hello,
> in Calibration Options only Manual is checked.
> Now in Options -> Set RX manual cal point... I calibrate every 2 kc
> and get a SIR of better than 80dB. I stop the calibration procedure
> with OK. After this the image frequency is going up to the signal
> level before calibration.
> Whats the error ?

Hi Uli,

Can you check the Options | Transceiver | General screen and look at calibration options. Ensure that you have the following settings:

Manual: Checked
Collect auto cal data: Not checked
Collection rate: Any setting
Apply calibration: Checked

Please let me know what your settings are and we'll try and work out the next step from there.

73,

Duncan
M0KGK

1400. Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-11-23 08:30:43 UTC
From: Uli
Topic: 1376 Message: 1400

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
Hi Janne

>...
> Even tried this and it didn't have any effect. I can slide the
> frequency slider and have at least -60dBc image when I'm on the manual
> cal procedure and have done all the calibaration points. But when I
> exit the manual cal, the image is back, which is around -30dBc.
>
>....

well I have the same problem, but it is not so severe. With manual calibration I get the image about -65dB down. In TUNE the image is always more than -50 dB down (100W out, image less than 10mW). At no pint I reach the calibrated -65dB.

Now my explanation:
You calibrate on several points, e.g. 7000, 7003, 7006 .....
At every point you get an value for amplitude and phase.
And this points are NOT on a straight line.
With some mathematic you interpolate a straight line into this points.
In the majority of cases you do not meet the points. You have variations. And this variations are responsible for a worse image rejection.

To put things right you can do the following:
Take more calibration points, but outside +-5kc of your oscillator frequency and look at the straight line in TX manual calibration -> Amplitude/Phase. How good is this line between the points ?

In Photos -> DF5SF you see a picture of my phase interpolation.

Good luck

73
Uli
DF5SF

1401. Re: [kgksdr] Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-11-23 12:56:19 UTC
From: Janne Pulkkinen
Topic: 1376 Message: 1401

Hi Uli!

--- On Sun, 11/23/08, Uli <uli@...> wrote:
From: Uli <uli@...>
Subject: [kgksdr] Re: Phase and amplitude corrections in use with "TUNE" ?
To: kgksdr@yahoogroups.com
Date: Sunday, November 23, 2008, 3:30 AM

--- In kgksdr@yahoogroups. com, "Janne Pulkkinen" <iami78@...> wrote:

Hi Janne

>...

> Even tried this and it didn't have any effect. I can slide the

> frequency slider and have at least -60dBc image when I'm on the manual

> cal procedure and have done all the calibaration points. But when I

> exit the manual cal, the image is back, which is around -30dBc.

>

>....

>well I have the same problem, but it is not so severe. With manual

>calibration I get the image about -65dB down. In TUNE the image is

>always more than -50 dB down (100W out, image less than 10mW). At no

>pint I reach the calibrated -65dB.

>Now my explanation:

>You calibrate on several points, e.g. 7000, 7003, 7006 .....

>At every point you get an value for amplitude and phase.
>And this points are NOT on a straight line.

>With some mathematic you interpolate a straight line into this points.

>In the majority of cases you do not meet the points. You have
>variations. And this variations are responsible for a worse image

>rejection.

>To put things right you can do the following:

>Take more calibration points, but outside +-5kc of your oscillator

>frequency and look at the straight line in TX manual calibration ->

>Amplitude/Phase. How good is this line between the points ?

>In Photos -> DF5SF you see a picture of my phase interpolation.

>Good luck

Actually, I forgot to report this, but there was a minor mistake in my SDR QSE and that was the real reason. When I found it and redid the calibration I had at least -65dBc (probably better, a lack of my measuring device) all over the spectrum.
 I think that if the correction values are unreasonable, they won't be saved etc.
73 de Janne OH1GTF

--

1402. Re: [kgksdr] Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-11-23 15:06:01 UTC
From: Duncan Munro
Topic: 1376 Message: 1402

Uli wrote:

> In Photos -> DF5SF you see a picture of my phase interpolation.

Hi Uli, thanks for posting the screen dump.

The left side of the picture looks very wrong, the phase keeps going up and down and the numbers are very low. Checking the right side of the pictures the IQ correction is +/- 0.1 degree over only 0.3 degree out - does anyone else get low figures like these?

73,

Duncan
M0KGK

1403. Re: Phase and amplitude corrections in use with "TUNE" ?

Yahoo group: kgksdr
Date: 2008-11-23 18:08:36 UTC
From: Uli
Topic: 1376 Message: 1403

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:

> Hi Uli, thanks for posting the screen dump.
>
> The left side of the picture looks very wrong, the phase keeps going up
> and down and the numbers are very low. Checking the right side of the
> pictures the IQ correction is +/- 0.1 degree over only 0.3 degree out -
> does anyone else get low figures like these?
>

Hi Duncan,

I added the screen dump of the amplitude correction.
The TX is a Softrock TRX V6.2 (40/30m) without the PA, only with driver.
The receiver (40m) is a SDR from www.funkamateur.de
In so doing I can see the up and down of the image and find the
maximum of rejection.
By the way, I use one PC and one Notebook (from QRL HI)

I post a picture from my test setup:
The antenna is a 50 Ohm dummy and the HF goes (blue wire, red coax)
through an attenuator (0...90dB) into the antennna of the RX. In this
way I get always the same test environment.

73
Uli
DF5SF

1404. Receiver hung in "Standby".

Yahoo group: kgksdr
Date: 2008-12-05 18:46:05 UTC
From: finley003
Topic: 1404 Message: 1404

I finally got my sound-cards setup in the program but now the software indicates the receiver is in "Standby". I do not find a "Start" button any where? How do I get the software out of "Standby"?

1405. Re: [kgksdr] Receiver hung in "Standby".

Yahoo group: kgksdr
Date: 2008-12-05 19:33:36 UTC
From: Duncan Munro
Topic: 1404 Message: 1405

finley003 wrote:
> I finally got my sound-cards setup in the program but now the software
> indicates the receiver is in "Standby". I do not find a "Start" button
> any where? How do I get the software out of "Standby"?

Hi, is this the receiver software rather than the TX/RX? If so, there is a button marked "Start" on the left hand side of the screen.

You can get it to start automatically with Options --> Receiver... --> General --> General Receiver --> Activate on startup.

73,

Duncan
M0KGK

1406. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 18:03:49 UTC
From: Ken H>
Topic: 1393 Message: 1406

Dani, I hope someone comes in with an answer. I'm looking for this same info. I just downloaded the loop.dll and MultiPSK and it works together, but not sure about WinPSK - that would be my program of choice - not sure if it is done is a similar manner as MultiPSK or not. I WILL be following this thread.

Thank you for starting it.

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, "daniwachs" <daniwachs@...> wrote:
>
> i am looking for information on how to use KGKSDR with winpsk 2.13.
> thank you.
> dani 4X1DM
>

1407. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 18:41:05 UTC
From: Uli
Topic: 1393 Message: 1407

Hi Dani, hi Ken,

KGKSDR and WinPSK works together.
I have no problem here.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Dani, I hope someone comes in with an answer. I'm looking for this
> same info. I just downloaded the loop.dll and MultiPSK and it works
> together, but not sure about WinPSK - that would be my program of
> choice - not sure if it is done is a similar manner as MultiPSK or
> not. I WILL be following this thread.
>
> Thank you for starting it.
>
> 73 de Ken H> K9FV
>
>
> --- In kgksdr@yahoogroups.com, "daniwachs" <daniwachs@> wrote:
> >
> > i am looking for information on how to use KGKSDR with winpsk 2.13.
> > thank you.
> > dani 4X1DM
> >
>

1408. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 19:33:39 UTC
From: Ken H>
Topic: 1393 Message: 1408

Thanks for the response Uli, could you give some details on how to make it all work together? Is there a certian version of WInPSK to use? Is all that is required to place the loop.dll file in windowns/System32 directory, then open WinPSK and select the loop.dll as the input instead of a soundcard?

details man, details {grinning}

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hi Dani, hi Ken,
>
> KGKSDR and WinPSK works together.
> I have no problem here.
>
> 73
> Uli
> DF5SF
>
> --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> >
> > Dani, I hope someone comes in with an answer. I'm looking for
this
> > same info. I just downloaded the loop.dll and MultiPSK and it
works
> > together, but not sure about WinPSK - that would be my program of
> > choice - not sure if it is done is a similar manner as MultiPSK
or
> > not. I WILL be following this thread.
> >
> > Thank you for starting it.
> >
> > 73 de Ken H> K9FV
> >
> >
> > --- In kgksdr@yahoogroups.com, "daniwachs" <daniwachs@> wrote:
> > >
> > > i am looking for information on how to use KGKSDR with winpsk
2.13.
> > > thank you.
> > > dani 4X1DM
> > >
> >
>

1409. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 21:39:25 UTC
From: Uli
Topic: 1393 Message: 1409

Hi Ken,
Sorry, now some details.
I use WIN XP SP3 and WinPSK 2.13
You need loop.dll in windows/system32 and the modified pskcore.dll
from HB9TLK. See in Files section. Copy this pskcore.dll in the
program folder from WinPSK. This is the folder, where you find
WinPSK.exe. I think thats all.
The modified pskcore.dll has 180kB, the original 184kB

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Thanks for the response Uli, could you give some details on how to
> make it all work together? Is there a certian version of WInPSK to
> use? Is all that is required to place the loop.dll file in
> windowns/System32 directory, then open WinPSK and select the loop.dll
> as the input instead of a soundcard?
>
> details man, details {grinning}
>
> 73 de Ken H> K9FV
>
> .....

1410. error msg Access Violation

Yahoo group: kgksdr
Date: 2008-12-07 22:01:10 UTC
From: Ken H>
Topic: 1410 Message: 1410

Hello all, I just installed the KGKSRD software, both the RX only and RXTX versions. Both work nicely - and even used the loop.dll file to allow MultiPSK to work with the SDR.

While the programs work nicely, when I close either program, I get the error msg: "Acess violation at address 00000000. read of address 00000000."

Once you click the "OK" button the program closes just fine - and ideas why this is accurring?

I am using a Toshiba Satellite P205 notebook with 4 gig ram and VISTA OS.

Thanks for a GREAT program.

73 de Ken H> K9FV

1411. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 22:33:09 UTC
From: Ken H>
Topic: 1393 Message: 1411

Thanks for the info Uli - that doesn't sound too difficult - I wil
attempt that and see how it works. I've got MultiPSK working, but
just like the cleaner GUI of WinPSK.

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hi Ken,
> Sorry, now some details.
> I use WIN XP SP3 and WinPSK 2.13
> You need loop.dll in windows/system32 and the modified pskcore.dll
> from HB9TLK. See in Files section. Copy this pskcore.dll in the
> program folder from WinPSK. This is the folder, where you find
> WinPSK.exe. I think thats all.
> The modified pskcore.dll has 180kB, the original 184kB
>
> 73
> Uli
> DF5SF
>
>
> --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> >
> > Thanks for the response Uli, could you give some details on how
to
> > make it all work together? Is there a certian version of WInPSK
to
> > use? Is all that is required to place the loop.dll file in
> > windowns/System32 directory, then open WinPSK and select the
loop.dll
> > as the input instead of a soundcard?
> >
> > details man, details {grinning}
> >
> > 73 de Ken H> K9FV
> >
> > ....
>

1412. Re: PSK31

Yahoo group: kgksdr
Date: 2008-12-07 22:40:50 UTC
From: Ken H>
Topic: 1393 Message: 1412

Thanks a BUNCH Uli - that works like a champ with VISTA. I'm sitting there looking at 2 QSOs taking place on 40 meters now with my Softrock V6.2 Lite.

Thank you again,

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hi Ken,
> Sorry, now some details.
> I use WIN XP SP3 and WinPSK 2.13
> You need loop.dll in windows/system32 and the modified pskcore.dll
> from HB9TLK. See in Files section. Copy this pskcore.dll in the
> program folder from WinPSK. This is the folder, where you find
> WinPSK.exe. I think thats all.
> The modified pskcore.dll has 180kB, the original 184kB
>
> 73
> Uli
> DF5SF
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>
> --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> >
> > Thanks for the response Uli, could you give some details on how
to
> > make it all work together? Is there a certian version of WInPSK
to
> > use? Is all that is required to place the loop.dll file in
> > windowns/System32 directory, then open WinPSK and select the
loop.dll
> > as the input instead of a soundcard?
> >
> > details man, details {grinning}
> >
> > 73 de Ken H> K9FV
> >
> > .....
>

1413. KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 02:49:33 UTC
From: Ken H>
Topic: 1413 Message: 1413

Hello all, are there any plans to control the Si570 with this program? Like in the V9.0 Lite receiver? I would LOVE to be able to help with the coding, but sadly am not proficent with code. I have done some VB, but more of the cookbook type coding.

I sure hope there is an interest - after just finding this program it has rapidly became my favorite!

73 de Ken H> K9FV

1414. Re: error msg Access Violation

Yahoo group: kgksdr
Date: 2008-12-08 05:18:37 UTC
From: f5lct
Topic: 1410 Message: 1414

Bonjour , i got the same error here in my VISTA and i am using a tower computer. i think is Vista doing this....
but i hope a patch for it
is there any body have a solution ???
73
F5LCT

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Hello all, I just installed the KGKSRD software, both the RX only and
> RXTX versions. Both work nicely - and even used the loop.dll file to
> allow MultiPSK to work with the SDR.
>
> While the programs work nicely, when I close either program, I get the
> error msg: "Acess violation at address 00000000. read of address
> 00000000."
>
> Once you click the "OK" button the program closes just fine - and ideas
> why this is accurring?
>
> I am using a Toshiba Satellite P205 notebook with 4 gig ram and VISTA
> OS.
>
> Thanks for a GREAT program.
>
> 73 de Ken H> K9FV
>

1415. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 05:21:55 UTC
From: f5lct
Topic: 1413 Message: 1415

Bonjour , yes we hope it for control SI570 for rx/tx 6.3 with usb2ic controler
regards
Hubert

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Hello all, are there any plans to control the Si570 with this program?
> Like in the V9.0 Lite receiver? I would LOVE to be able to help with
> the coding, but sadly am not proficent with code. I have done some VB,
> but more of the cookbook type coding.
>
> I sure hope there is an interest - after just finding this program it
> has rapidly became my favorite!
>
> 73 de Ken H> K9FV
>

1416. Re: [kgksdr] Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 06:12:10 UTC
From: Janne Pulkkinen
Topic: 1413 Message: 1416

The most practical way, IMO, would be to add dll support with frequency control. This would give anyone access to the frequency control. There could be Si570.dll for Si570 users etc.

73 de Janne, OH1GTF

>Bonjour , yes we hope it for control SI570 for rx/tx 6.3 with usb2ic
>controler
>regards
>Hubert

--- In kgksdr@yahoogroups. com, "Ken H>" <sailingto@. ..> wrote:
>
> Hello all, are there any plans to control the Si570 with this program?
> Like in the V9.0 Lite receiver? I would LOVE to be able to help with
> the coding, but sadly am not proficent with code. I have done some VB,
> but more of the cookbook type coding.
>
> I sure hope there is an interest - after just finding this program it
> has rapidly became my favorite!
>
> 73 de Ken H> K9FV
>

1417. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 14:56:50 UTC
From: cesco12342000
Topic: 1413 Message: 1417

> The most practical way, IMO, would be to add dll support with frequency control. This would give anyone access to the frequency control. There could be Si570.dll for Si570 users etc.

I suggest using the existing si570 extio dll's for winrad.

This way the integration should be quite easy, and by swapping the dll this system offers control for a bunch of hardware, not only softrocks.

1418. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 16:06:30 UTC
From: Ken H>
Topic: 1413 Message: 1418

Cesco, I certainly bow to your knowledge - Let me understand what you are suggesting: That the KGKSDR program be modified to allow the use of the Si570.dll you wrote for Winrad to work?

That surely would be a good way I'm sure - Winrad is a GREAT receiving program, but does not offer TX ability.... yet. I'm hoping someone (you?) will bring TX ability to Winrad, but for now, the KGKSDR program is the best working program that allows me to do RXTX both from the same program. Rocky just does not work with my VISTA/soundcard system.

Thanks again to ALL who have contributed to this world.

73 de Ken H>

--- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@...> wrote:
>
> > The most practical way, IMO, would be to add dll support with
> frequency control. This would give anyone access to the frequency
> control. There could be Si570.dll for Si570 users etc.
>
> I suggest using the existing si570 extio dll's for winrad.
>
> This way the integration should be quite easy, and by swapping the
dll
> this system offers control for a bunch of hardware, not only
softrocks.
>

1419. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 17:28:07 UTC
From: cesco12342000
Topic: 1413 Message: 1419

> are suggesting: That the KGKSDR program be modified to allow the
> of the Si570.dll you wrote for Winrad to work?

Not exactly.

That the KGKSDR program be modified to allow the use of ANY extio-dll is correct. There are lots of extio dll's for a lot of different hardware, not only softrocks. They all share the extio-interface, means they are all compatible. Kgk-sdr could use the dll's made for winrad, i guess the winrad author Alberto would be pleased.

1420. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 21:39:33 UTC
From: Uli
Topic: 1413 Message: 1420

Hello all,
well, I am also interested to control the Si570 and some more IOs (for switching bandpass etc....) from within the KGKSDR. KGKSDR is a GREAT software and many thanks to Duncan.
KGKSDR is not open source (I think), so only Duncan can modify the code.
Ken, in the meantime you can use the software from DG8SAQ. Tom has written a cute application to set the frequency of the Si570. More details see at the end of http://www.sdr-kits.net
I have no experience with this software.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Hello all, are there any plans to control the Si570 with this program?
> Like in the V9.0 Lite receiver? I would LOVE to be able to help with
> the coding, but sadly am not proficent with code. I have done some VB,
> but more of the cookbook type coding.
>
> I sure hope there is an interest - after just finding this program it
> has rapidly became my favorite!
>
> 73 de Ken H> K9FV
>

1421. Re: [kgksdr] Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-08 23:45:42 UTC
From: Duncan Munro
Topic: 1413 Message: 1421

Uli wrote:
> Hello all,
> well, I am also interested to control the Si570 and some more IOs (for
> switching bandpass etc....) from within the KGKSDR. KGKSDR is a GREAT
> software and many thanks to Duncan.
> KGKSDR is not open source (I think), so only Duncan can modify the code.
> Ken, in the meantime you can use the software from DG8SAQ. Tom has
> written a cute application to set the frequency of the Si570. More
> details see at the end of http://www.sdr-kits.net
> I have no experience with this software.

Hi Uli, it is my plan to do Si570 support. This will be via an open
source dll so if people want to modify to control other devices....

My day job seems to keep me going 168 hours a week right now, but I have
a couple of weeks off at Christmas so hope to sort it out then :-)

73,

Duncan
M0KGK

1422. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2008-12-09 04:14:13 UTC
From: Ken H>
Topic: 1413 Message: 1422

Thanks for the suggestion Uli, I have used Tom's neat program to set the Si570 freq to play with in KGKSDR - but the freq display doesn't change and I have to write down and make notes so I know where I am. That allowed me to see KGKSDR work with my V9.0 Lite I'm just finishing up - hoping Tony will get the new HF-BPF kits mailed this week - I was to get a beta version, but got my money to Tony jsut a few hours too late.

Duncan - we all do really appreciate all the work you have done on this program - I do like it and hope you have some time over Christmas to get some coding done... can I come and wash your car or something to give you more time? {grinning - cause you should see my motorcyle before you accept}

73 de Ken H. K9FV

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hello all,
> well, I am also interested to control the Si570 and some more IOs (for
> switching bandpass etc....) from within the KGKSDR. KGKSDR is a GREAT
> software and many thanks to Duncan.
> KGKSDR is not open source (I think), so only Duncan can modify the code.
> Ken, in the meantime you can use the software from DG8SAQ. Tom has
> written a cute application to set the frequency of the Si570. More
> details see at the end of http://www.sdr-kits.net
> I have no experience with this software.
>
> 73
> Uli
> DF5SF
>
> --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> >
> > Hello all, are there any plans to control the Si570 with this program?
> > Like in the V9.0 Lite receiver? I would LOVE to be able to help with
> > the coding, but sadly am not proficent with code. I have done some VB,
> > but more of the cookbook type coding.
> >
> > I sure hope there is an interest - after just finding this

program it
> > has rapidly became my favorite!
> >
> > 73 de Ken H> K9FV
> >
>

1423. Seasons greetings and suggestion

Yahoo group: kgksdr
Date: 2008-12-26 13:39:22 UTC
From: Uli
Topic: 1423 Message: 1423

Hello
wishing all of you a happy holiday season and a new year filled with
peace, health and prosperity.

I have a suggestion for future release of KGKSDR:
a visual tuning indicator: If the receiving CW signal is within +-10Hz
of the adjusted CW center frequency a green light is ON. So it is very
easy to work fairly zero-beat.
Most of the transceiver-kits of the DL-QRP-AG (comparable with G-QRP)
have this feature built-in. I really like it.

73
Uli
DF5SF

1424. Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-01 20:02:10 UTC
From: Janne Pulkkinen
Topic: 1424 Message: 1424

Quite rare that advantage (Duncan has done really great job adding the PowerMate support to KGKSDR) can turn to disadvantage, hi.

Is there anyway to disable the PowerMate? I searched through registers etc. but I think there's no way to turn it off.

I bought PowerMate and added it to my hardware controller software (which also controls hardware frequency) and now have the problem that KGKSDR also changes it's frequency even when the window is on the background.

There's one trick, which does the trick, but it's still a trick: I first start KGKSDR and PowerMate after that. This way KGKSDR don't react to PowerMate.

Is it nonsense to add PowerMate enabled/disabled function to next KGKSDR version?

73 de Janne, OH1GTF

1425. Re: Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-01 20:34:00 UTC
From: Janne Pulkkinen
Topic: 1424 Message: 1425

Replying to myself:

Now when I've spent few moments with the PowerMate, I gotta say that I love the control of frequency in KGKSDR with the PowerMate. Just realized, that the best option would be, if the control would only work when the KGKSDR window is active.

73 de Janne, OH1GTF

>
> Quite rare that advantage (Duncan has done really great job adding the PowerMate support to KGKSDR) can turn to disadvantage, hi.
>
> Is there anyway to disable the PowerMate? I searched through registers etc. but I think there's no way to turn it off.
>
> I bought PowerMate and added it to my hardware controller software (which also controls hardware frequency) and now have the problem that KGKSDR also changes it's frequency even when the window is on the background.
>
> There's one trick, which does the trick, but it's still a trick: I first start KGKSDR and PowerMate after that. This way KGKSDR don't react to PowerMate.
>
> Is it nonsense to add PowerMate enabled/disabled function to next KGKSDR version?
>
> 73 de Janne, OH1GTF
>

1426. Geting KGK software to connect to SB Audigy-2 ZS PCMCIA sound card

Yahoo group: kgksdr
Date: 2009-01-06 10:34:20 UTC
From: n4spp
Topic: 1426 Message: 1426

Helo all,

I finally had some time over the year-end holidays to build my SoftRock RXTX V6.2 20m/30m kit. I'm using a Dell laptop and an SB Audigy-2 ZS PCMCIA sound card. Supposedly it supports 96 kHz sampling. The drivers are said to be SIAO compliant...

I chedked out the receiver part with Rocky software. Now it's time to move up to M0KGK SDR Transceiver V1.1. Unfortunately this software refuses to talk to my soundcard, and complains that it can not configure the card for the selected sample rate (no matter which value I select). See Powerpoint slide in N4SPP folder in "files" section.

I have searched the group messages, but only found references to other SB soundcards...

Any hints, suggestions, advice (other than buying another soundcard)?

Thanks!

Best 73s de Frank F/N4SPP

www.nonstopsystems.com/radio.htm (my ham radio pages)
www.nonstopsystems.com/hell.com (my hellschreiber website)

1427. Re: Geting KGK software to connect to SB Audigy-2 ZS PCMCIA sound card

Yahoo group: kgksdr
Date: 2009-01-06 10:57:31 UTC
From: Uli
Topic: 1426 Message: 1427

Hello Frank,

sorry, I have no hints for yor SB problem, but your internet site is excellent, especially the part about Hellschreiber.

I have here the Softrock V6.2 and for digi-modes I use MultiPsk (PSK31, RTTY, THROB, MFSK, Olivia, HELL ....). You don't need a VAC, only copy the loop.dll into ..\WINDOWS\system32 directory.
You can find the loop.dll in the Files-area.

Infos about MultiPsk are here:
http://f6cte.free.fr/index_anglais.htm
I have not tested all modes, HI

73
Uli
DF5SF

1428. Re: Geting KGK software to connect to SB Audigy-2 ZS PCMCIA sound card

Yahoo group: kgksdr
Date: 2009-01-06 11:14:36 UTC
From: ad9850
Topic: 1426 Message: 1428

Hi Frank,

> I chedked out the receiver part with Rocky software. Now it's time
> to move up to M0KGK SDR Transceiver V1.1. Unfortunately this
> software refuses to talk to my soundcard, and complains that it can
> not configure the card for the selected sample rate (no matter which
> value I select). See Powerpoint slide in N4SPP folder in "files"
> section.

With the software for the soundcard comes a little tool 'device control'. You have to use this tool to set the sampling rate for the card. The other software packages like KGKSDR will not do this.

73 Bodo, DJ9CS

1429. Re: Geting KGK software to connect to SB Audigy-2 ZS PCMCIA sound card

Yahoo group: kgksdr
Date: 2009-01-06 11:38:37 UTC
From: Duncan Munro
Topic: 1426 Message: 1429

--- In kgksdr@yahoogroups.com, "n4spp" <n4spp@...> wrote:
> I chedked out the receiver part with Rocky software. Now it's time
> to move up to M0KGK SDR Transceiver V1.1. Unfortunately this
> software refuses to talk to my soundcard, and complains that it can
> not configure the card for the selected sample rate (no matter
which
> value I select). See Powerpoint slide in N4SPP folder in "files"
> section.

Hi Frank, the TX/RX version doesn't deal direct with the soundcards
any more unless they have ASIO drivers installed.

Some soundcards don't have these drivers, it's normally only on high-
end soundcards for muso's, so there is a piece of software called
ASIO4all which fakes an ASIO driver for just about any soundcard.

If you download and setup the software from http://www.asio4all.com/
everything should start working OK.

73,

Duncan
M0KGK

1430. Re: Geting KGK software to connect to SB Audigy-2 ZS PCMCIA sound card

Yahoo group: kgksdr
Date: 2009-01-06 21:04:43 UTC
From: n4spp
Topic: 1426 Message: 1430

Thanks Duncan,

with that new ASIO driver and turning off internal audio loopback, my receiver now seems to be functional! I have put a screen shot of the spectrum in the N4SPP folder. Hope it looks the way it is supposed to or to be expected. The card supposedly has a default input sampling rate of 96 kHz.

Checking out the transmitter of my SoftRock V6.2 RXTX is next...

Thanks for the help.

73 de Frank F/N4SPP

--- In kgksdr@yahoogroups.com, "Duncan Munro" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "n4spp" <n4spp@> wrote:
> > I chedked out the receiver part with Rocky software. Now it's time
> > to move up to M0KGK SDR Transceiver V1.1. Unfortunately this
> > software refuses to talk to my soundcard, and complains that it can
> > not configure the card for the selected sample rate (no matter
> which
> > value I select). See Powerpoint slide in N4SPP folder in "files"
> > section.
>
> Hi Frank, the TX/RX version doesn't deal direct with the soundcards
> any more unless they have ASIO drivers installed.
>
> Some soundcards don't have these drivers, it's normally only on high-
> end soundcards for muso's, so there is a piece of software called
> ASIO4all which fakes an ASIO driver for just about any soundcard.
>
> If you download and setup the software from http://www.asio4all.com/
> everything should start working OK.
>
> 73,
>
> Duncan
> M0KGK
>

1431. Re: Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-13 02:32:19 UTC
From: Ken H>
Topic: 1424 Message: 1431

I have been out of touch over the Christmas Holidays and have been reading the thread about Powermate controlling freqs.... it sounds like this allows KGKSDR to control the Si570 chip?

Can someone point me to a link/page that explains how all this is done? Where to get Powermate and what it is?

Thanks for any help,

Ken H> K9FV

--- In kgksdr@yahoogroups.com, Janne Pulkkinen <iami78@...> wrote:
>
> Quite rare that advantage (Duncan has done really great job adding the PowerMate support to KGKSDR) can turn to disadvantage, hi.
>
> Is there anyway to disable the PowerMate? I searched through registers etc. but I think there's no way to turn it off.
>
> I bought PowerMate and added it to my hardware controller software (which also controls hardware frequency) and now have the problem that KGKSDR also changes it's frequency even when the window is on the background.
>
> There's one trick, which does the trick, but it's still a trick: I first start KGKSDR and PowerMate after that. This way KGKSDR don't react to PowerMate.
>
> Is it nonsense to add PowerMate enabled/disabled function to next KGKSDR version?
>
> 73 de Janne, OH1GTF
>

1432. KGKSDR V1.1 and EMU 0202 USB soundcard problems

Yahoo group: kgksdr
Date: 2009-01-14 18:50:02 UTC
From: Uli
Topic: 1432 Message: 1432

Hello,
I need your help.

Have here KGKSDR V1.1, ASIO4All V2.9 and the latest driver from EMU0202 installed (Control panel 1.3.0.0, Driver 6.00.01.0001 and Firmware 8.04)

In Options -> ASIO Soundcard:
RX-IQ input: E-MU 202| USB
Speaker Out: onboard soundcard
Mic In: onboard soundcard
TX-IQ output: EMU 0202
Samplerate 96k

All seems OK, but when I start KGKSDR - nothing happens: no noise, no spectrum

After clicking Options -> Transceiver -> ControlPanel (ASIO4All opens)
I can see the spectrum and listen to amateur radio.

In the ASIO4All window:
E-MU 0202
Input: 2x44.1-192kHz, 32Bits
Output: 2x44.1-192kHz, 32Bits

Then closing the ASIO4All window with X, all is OK.
After clicking the OK button from Transceiver Options I get the message "could not set the sample rate to 96000"
Now the spectrum freeze and nothing to hear.

Again opening Options -> Transceiver -> Control Panel the ASIO4All windows opens and I can read:
E-MU 0202
Input: 2x44.1kHz, 32Bits
Output: 2x44.1kHz, 32Bits
and the message "could not set the sample rate to 96000"

The spectrum freeze and nothing to hear. The only possibility is to close KGKSDR and try a new start.

Any ideas how to solve this problem ?

KGKSDR works fine with a USB-Soundcard from TERRATEC.

73
Uli
DF5SF

1433. Re: Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-15 18:35:55 UTC
From: g8voip
Topic: 1424 Message: 1433

Hi Ken,

The Griffin PowerMate is a USB controller(human interface they call it) which consists of a rotary encoder (knob), with an integrated push switch when you push down on the knob. This gives six possible controls:

Rotate clockwise, rotate anti-clockwise, push down and rotate either way, or a short or long push on the switch.

The software provided with the controller allows the user to assign functions like key presses, mouse clicks, scrolling etc to each of the available operations. These are configured to the particular program being run at the time. I use the rotate functions to emulate the mouse scroll wheel as a means of tuning when running the various SDR programs including PSDR, Rocky and Winrad,likewise when running PowerSDR and Rocky, I have allocated the push / rotate to step up or down the frequency tuning step size.

I do not believe any of the available SDR programs actually include support for the PowerMate, its up to the user to decide what functions they want.

The Flex Radio website does include a document recommending a setup for the PowerMate to be used with the SDR1000.

A simple Google search should give you more information.

I purchased mine off eBay from a company in the States, half the price of those here in the UK.

So, just to be clear, it does not provide any additions functions to the existing SDR software, just a different method of providing an interface for the human operator, i.e a conventional tuning knob rather than using up / down keys or a mouse scroll wheel.

Regards,

Bob G8VOI

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> I have been out of touch over the Christmas Holidays and have been
> reading the thread about Powermate controlling freqs.... it sounds
> like this allows KGKSDR to control the Si570 chip?
>
> Can someone point me to a link/page that explains how all this is
> done? Where to get Powermate and what it is?
>

> Thanks for any help,
>
> Ken H> K9FV
>
> --- In kgksdr@yahoogroups.com, Janne Pulkkinen <iami78@> wrote:
> >
> > Quite rare that advantage (Duncan has done really great job adding
> the PowerMate support to KGKSDR) can turn to disadvantage, hi.
> >
> > Is there anyway to disable the PowerMate? I searched through
> registers etc. but I think there's no way to turn it off.
> >
> > I bought PowerMate and added it to my hardware controller software
> (which also controls hardware frequency) and now have the problem
> that KGKSDR also changes it's frequency even when the window is on
> the background.
> >
> > There's one trick, which does the trick, but it's still a trick: I
> first start KGKSDR and PowerMate after that. This way KGKSDR don't
> react to PowerMate.
> >
> > Is it nonsense to add PowerMate enabled/disabled function to next
> KGKSDR version?
> >
> > 73 de Janne, OH1GTF
> >
>

1434. Re: Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-15 18:40:03 UTC
From: g8voip
Topic: 1424 Message: 1434

Hi Ken,

What I should have said is that the PowerMate does not magically add any control function, i.e tuning the Si570. This is only possible if the original SDR software supports this already. As far as I am aware the kgksdr does not at present, although Duncan commented in a previous message that he would be looking at it over Christmas, maybe in the form of an add on dll like Fred's and Cesco's ones for Winrad.

Regards,

Bob G8VOI

--- In kgksdr@yahoogroups.com, "g8voip" <g8voi.reeves59@...> wrote:
>
> Hi Ken,
>
> The Griffin PowerMate is a USB controller(human interface they call
> it) which consists of a rotary encoder (knob), with an integrated push
> switch when you push down on the knob. This gives six possible controls:
>
> Rotate clockwise, rotate anti-clockwise, push down and rotate either
> way, or a short or long push on the switch.
>
> The software provided with the controller allows the user to assign
> functions like key presses, mouse clicks, scrolling etc to each of the
> available operations. These are configured to the particular program
> being run at the time. I use the rotate functions to emulate the mouse
> scroll wheel as a means of tuning when running the various SDR
> programs including PSDR, Rocky and Winrad,likewise when running
> PowerSDR and Rocky, I have allocated the push / rotate to step up or
> down the frequency tuning step size.
>
> I do not believe any of the available SDR programs actually include
> support for the PowerMate, its up to the user to decide what functions
> they want.
>
> The Flex Radio website does include a document recommending a setup
> for the PowerMate to be used with the SDR1000.
>
> A simple Google search should give you more information.
>
> I purchased mine off eBay from a company in the States, half the price
> of those here in the UK.
>
> So, just to be clear, it does not provide any additions functions to

> the existing SDR software, just a different method of providing an
> interface for the human operator, i.e a conventional tuning knob
> rather than using up / down keys or a mouse scroll wheel.
>
> Regards,
>
> Bob G8VOI
>
>
>
> --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> >
> > I have been out of touch over the Christmas Holidays and have been
> > reading the thread about Powermate controlling freqs.... it sounds
> > like this allows KGKSDR to control the Si570 chip?
> >
> > Can someone point me to a link/page that explains how all this is
> > done? Where to get Powermate and what it is?
> >
> > Thanks for any help,
> >
> > Ken H> K9FV
> >
> > --- In kgksdr@yahoogroups.com, Janne Pulkkinen <iami78@> wrote:
> > >
> > > Quite rare that advantage (Duncan has done really great job adding
> > the PowerMate support to KGKSDR) can turn to disadvantage, hi.
> > >
> > > Is there anyway to disable the PowerMate? I searched through
> > registers etc. but I think there's no way to turn it off.
> > >
> > > I bought PowerMate and added it to my hardware controller software
> > (which also controls hardware frequency) and now have the problem
> > that KGKSDR also changes it's frequency even when the window is on
> > the background.
> > >
> > > There's one trick, which does the trick, but it's still a trick: I
> > first start KGKSDR and PowerMate after that. This way KGKSDR don't
> > react to PowerMate.
> > >
> > > Is it nonsense to add PowerMate enabled/disabled function to next
> > KGKSDR version?
> > >
> > > 73 de Janne, OH1GTF
> > >
> >
>

1435. Re: Disabling PowerMate in KGKSDR.

Yahoo group: kgksdr
Date: 2009-01-16 18:20:17 UTC
From: Ken H>
Topic: 1424 Message: 1435

Thank you for such a detailed response Bob, now I understand
better... something like a fancy programmable mouse.

I was hoping there would be a nice "Christmas Present" of Si570
support in the KGKSDR program. I surely like that program.

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, "g8voip" <g8voi.reeves59@...> wrote:
>
> Hi Ken,
>
> What I should have said is that the PowerMate does not magically add
> any control function, i.e tuning the Si570. This is only possible if
> the original SDR software supports this already. As far as I am
aware
> the kgksdr does not at present, although Duncan commented in a
> previous message that he would be looking at it over Christmas,
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> in the form of an add on dll like Fred's and Cesco's ones for
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> Regards,
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> Bob G8VOI
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> >
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> >
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> > it) which consists of a rotary encoder (knob), with an integrated
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> > switch when you push down on the knob. This gives six possible
controls:
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> > Rotate clockwise, rotate anti-clockwise, push down and rotate
either
> > way, or a short or long push on the switch.
> >
> > The software provided with the controller allows the user to
assign
> > functions like key presses, mouse clicks, scrolling etc to each
of the

> > available operations. These are configured to the particular
program
> > being run at the time. I use the rotate functions to emulate the
mouse
> > scroll wheel as a means of tuning when running the various SDR
> > programs including PSDR, Rocky and Winrad,likewise when running
> > PowerSDR and Rocky, I have allocated the push / rotate to step up
or
> > down the frequency tuning step size.
> >
> > I do not believe any of the available SDR programs actually
include
> > support for the PowerMate, its up to the user to decide what
functions
> > they want.
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setup
> > for the PowerMate to be used with the SDR1000.
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price
> > of those here in the UK.
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to
> > the existing SDR software, just a different method of providing an
> > interface for the human operator, i.e a conventional tuning knob
> > rather than using up / down keys or a mouse scroll wheel.
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> > Regards,
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> > Bob G8VOI
> >
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> >
> > --- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@> wrote:
> > >
> > > I have been out of touch over the Christmas Holidays and have
been
> > > reading the thread about Powermate controlling freqs.... it
sounds
> > > like this allows KGKSDR to control the Si570 chip?
> > >
> > > Can someone point me to a link/page that explains how all this
is
> > > done? Where to get Powermate and what it is?
> > >

> > > Thanks for any help,
> > >
> > > Ken H> K9FV
> > >
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software
> > > (which also controls hardware frequency) and now have the
problem
> > > that KGKSDR also changes it's frequency even when the window is
on
> > > the background.
> > > >
> > > > There's one trick, which does the trick, but it's still a
trick: I
> > > first start KGKSDR and PowerMate after that. This way KGKSDR
don't
> > > react to PowerMate.
> > > >
> > > > Is it nonsense to add PowerMate enabled/disabled function to
next
> > > KGKSDR version?
> > > >
> > > > 73 de Janne, OH1GTF
> > > >
> > >
> >
>

1436. Re: Problem with manual calibration V1.1

Yahoo group: kgksdr
Date: 2009-01-30 14:57:24 UTC
From: kanewderfish
Topic: 1396 Message: 1436

I'm having the same problem....any progress on this?

Thanks

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Uli wrote:
> > Hello,
> > in Calibration Options only Manual is checked.
> > Now in Options -> Set RX manual cal point... I calibrate every 2
kc
> > and get a SIR of better than 80dB. I stop the calibration
procedure
> > with OK. After this the image frequency is going up to the signal
> > level before calibration.
> > Whats the error ?
>
> Hi Uli,
>
> Can you check the Options | Transceiver | General screen and look
at
> calibration options. Ensure that you have the following settings:
>
> Manual: Checked
> Collect auto cal data: Not checked
> Collection rate: Any setting
> Apply calibration: Checked
>
> Please let me know what your settings are and we'll try and work
out the
> next step from there.
>
> 73,
>
> Duncan
> M0KGK
>

1437. Re: KGKSDR and Si570????

Yahoo group: kgksdr
Date: 2009-02-14 07:07:12 UTC
From: f5lct
Topic: 1413 Message: 1437

Bonjour ,
any news about KGKSDR and Si570 driver ????
regards
F5LCT

--- In kgksdr@yahoogroups.com, "Ken H>" <sailingto@...> wrote:
>
> Cesco, I certainly bow to your knowledge - Let me understand what you
> are suggesting: That the KGKSDR program be modified to allow the use
> of the Si570.dll you wrote for Winrad to work?
>
> That surely would be a good way I'm sure - Winrad is a GREAT receiving
> program, but does not offer TX ability.... yet. I'm hoping someone
> (you?) will bring TX ability to Winrad, but for now, the KGKSDR program
> is the best working program that allows me to do RXTX both from the
> same program. Rocky just does not work with my VISTA/soundcard system.
>
> Thanks again to ALL who have contributed to this world.
>
> 73 de Ken H>
>
> --- In kgksdr@yahoogroups.com, "cesco12342000" <cesco1@> wrote:
> >
> > > The most practical way, IMO, would be to add dll support with
> > frequency control. This would give anyone access to the frequency
> > control. There could be Si570.dll for Si570 users etc.
> >
> > I suggest using the existing si570 extio dll's for winrad.
> >
> > This way the integration should be quite easy, and by swapping the
> dll
> > this system offers control for a bunch of hardware, not only
> softrocks.
> >
>

1438. Sample rate problem

Yahoo group: kgksdr
Date: 2009-02-21 20:32:05 UTC
From: Rod Brink
Topic: 1438 Message: 1438

Am using a Softrock 80 (3840 kHz center freq) which works beautifully with PowerSDR. Having several problems running with M0KGK SDR, although as a newby most are probably my fault. One of the main things - signal from a sig gen is demodulated and displayed fine with 48k sample rate, but becomes "gurgly" at 96k sample rate (am using Delta 44 sound card).

1439. Re: [kgksdr] Sample rate problem

Yahoo group: kgksdr
Date: 2009-02-21 21:22:12 UTC
From: Duncan Munro
Topic: 1438 Message: 1439

Rod Brink wrote:
> Am using a Softrock 80 (3840 kHz center freq) which works beautifully with
> PowerSDR. Having several problems running with M0KGK SDR, although as a
> newby most are probably my fault. One of the main things - signal from a
> sig gen is demodulated and displayed fine with 48k sample rate, but becomes
> "gurgly" at 96k sample rate (am using Delta 44 sound card).

Hi Rod, it may be that 96k is just too quick for the combo of your
machine and KGKSDR. PowerSDR and Rocky seem a lot more efficient and
less susceptible to these issues, this is something that needs looking at...

73,

Duncan
M0KGK

1440. Re: Sample rate problem

Yahoo group: kgksdr
Date: 2009-02-22 02:37:58 UTC
From: rodbrink15
Topic: 1438 Message: 1440

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Rod Brink wrote:
> > Am using a Softrock 80 (3840 kHz center freq) which works
beautifully with
> > PowerSDR. Having several problems running with M0KGK SDR,
although as a
> > newby most are probably my fault. One of the main things -
signal from a
> > sig gen is demodulated and displayed fine with 48k sample rate,
but becomes
> > "gurgly" at 96k sample rate (am using Delta 44 sound card).
>
> Hi Rod, it may be that 96k is just too quick for the combo of your
> machine and KGKSDR. PowerSDR and Rocky seem a lot more efficient
and
> less susceptible to these issues, this is something that needs
looking at...
>
> 73,
>
> Duncan
> M0KGK
>
Yep - guess that's right. My CPU usage fluctuates all the way up to
100% when sampling at 96k. Too bad. I really wanted to use KGKSDR
because it has both AM and transmit capability. Sigh.....

Rod, KQ6F

1441. Re : [kgksdr] Sample rate problem

Yahoo group: kgksdr
Date: 2009-02-22 10:27:03 UTC
From: zicmubid@aol.com
Topic: 1438 Message: 1441

hello dear friend, excuse my English, can you tell me how you make your selfs for 80m

Thank you very much

-----E-mail d'origine-----
De : Duncan Munro <m0kgk@...>
A : kgksdr@yahoogroups.com
Envoyé le : Samedi, 21 Février 2009 22:22
Sujet : Re: [kgksdr] Sample rate problem

Rod Brink wrote:
> Am using a Softrock 80 (3840 kHz center freq) which works beautifully with
> PowerSDR. Having several problems running with M0KGK SDR, although as a
> newby most are probably my fault. One of the main things - signal from a
> sig gen is demodulated and displayed fine with 48k sample rate, but becomes
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73,

Duncan
M0KGK

Yahoo! Groups Links

ailto:kgksdr-fullfeatured@yahoogroups.com

Reçevez AOL Mail sur votre téléphone. Vos e-mails accessibles à tout moment! Créez un e-mail gratuit aujourd’hui.

1442. Re: Re : [kgksdr] Sample rate problem

Yahoo group: kgksdr
Date: 2009-02-22 15:50:32 UTC
From: rodbrink15
Topic: 1438 Message: 1442

I'm using the v6.2 Softrock Lite and modified IT using this schematic:

http://f1.grp.yahoofs.com/v1/cGihSTS-4xBFSYe81AhLaglxe2hdKPpK7Bf7V3e2VAB4CP2uPDR8r1kkA-7fx1cQTwMl25QAUFGLRdn2y8OOHurG_tOvdAVMBQ/%27A2%20SoftRock%20v6.0%20docs/SoftRock%20Lite%20docs/v6.2%20SoftRock%20Lite%20%20schematic%2012_18.pdf

Let me know if this link does not work and I'll send you the schematic more directly.

73,
Rod, KQ6F

--- In kgksdr@yahoogroups.com, zicmubid@... wrote:
>
> hello dear friend, excuse my English, can you tell me how you make your
> selfs for 80m
>
> Thank you very much
>
>
>
>
> -----E-mail d'origine-----
> De : Duncan Munro <m0kgk@...>
> A : kgksdr@yahoogroups.com
> EnvoyÃ© le : Samedi, 21 FÃ©vrier 2009 22:22
> Sujet : Re: [kgksdr] Sample rate problem
>
>
>
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>
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>
>
> Rod Brink wrote:
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> > PowerSDR. Having several problems running with M0KGK SDR,

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> as a
> > newby most are probably my fault. One of the main things -
signal
> from a
> > sig gen is demodulated and displayed fine with 48k sample rate,
but
> becomes
> > "gurgly" at 96k sample rate (am using Delta 44 sound card).
>
> Hi Rod, it may be that 96k is just too quick for the combo of your
> machine and KGKSDR. PowerSDR and Rocky seem a lot more efficient
and
> less susceptible to these issues, this is something that needs
looking
> at...
>
> 73,
>
> Duncan
> M0KGK
>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
> ailto:kgksdr-fullfeatured@yahoogroups.com
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> ReÃ§evez AOL Mail sur votre tÃ©lÃ©phone. Vos e-mails accessibles Ã
tout
> moment! CrÃ©ez un e-mail gratuit aujourdâ□□hui.
>

1443. Big noise on Tx

Yahoo group: kgksdr
Date: 2009-02-28 21:03:17 UTC
From: rodbrink15
Topic: 1443 Message: 1443

It's gotta be something stupid I'm doing, but when I click the MOX button, the noise in my speaker jumps way up. I would expect the receiver to be muted and no sound from the speaker. Wonder what I'm doing wrong. Am using a Softrock 80 v6.2 (no Tx) and Delta 44 soundcard.

Another thing - when receiving AM the S-meter seems to respond only to audio, not to the carrier. S-meters on all other rigs I know of respond to both..

1444. calibration with different frequencies

Yahoo group: kgksdr
Date: 2009-03-05 17:38:59 UTC
From: Uli
Topic: 1444 Message: 1444

Hello,
My softrock (40/30m) has now got a Si570 oszillator.
Now I have several bands:
1 7030
2 7060
3 7090
4 10130
5 10150
.....

Do I need for every band an RX calibration or can I use ONE calibration as master ?
And what is about the TX calibration ?

Many thanks for your help.

73
Uli
DF5SF

1445. Re: [kgksdr] calibration with different frequencies

Yahoo group: kgksdr
Date: 2009-03-06 00:13:01 UTC
From: Duncan Munro
Topic: 1444 Message: 1445

Uli wrote:
> Hello,
> My softrock (40/30m) has now got a Si570 oszillator.
> Now I have several bands:
> 1 7030
> 2 7060
> 3 7090
> 4 10130
> 5 10150
> .....
>
> Do I need for every band an RX calibration or can I use ONE calibration as master ?
> And what is about the TX calibration ?

Hi Uli, you will need a different one for each band as the
phase/amplitude correlation between the switches will vary with frequency.

73,

Duncan
M0KGK

1446. Question to manual calibration

Yahoo group: kgksdr
Date: 2009-03-11 11:56:20 UTC
From: Uli
Topic: 1446 Message: 1446

Hi,
in manual calibration the TX signal has -94 dBm (in S-Meter display). The image has -120dBm.

So the image rejection is 26 dB uncalibrated. OK ?

After calibration with slow guess and stopping when the signal is lost in the noise I get -145 dBm (in S-Meter display).

So the image rejection is 51 dB (difference between -94 dBm and -145 dBm) after calibration. OK ?

In my spectrum display the noise level is only about -130 dBm. Now how can you meassure an image signal with 15 dB down in the noise ?

After stopping the calibration I get the following information and I have difficulties to understand.

Guessing is complete and has reduced the image by 80 dB. How do you calculate 80 dB ?

The signal to image ratio (SIR) or signal to noise ratio is now 105 dB. How do you calulate this ?

Many thanks for your help

73
Uli
DF5SF

1447. KGKSDR and MixW, DM780

Yahoo group: kgksdr
Date: 2009-03-23 21:20:04 UTC
From: yt1dl
Topic: 1447 Message: 1447

Is it posible to implement one more com port in future version of kgksdr? I use kgksdr with AVALA-01 transceiver. Audio connections with MixW done over virtual VAC but RX/TX switch must be done over hardware com port. I do not have two com ports at my PC, so, I use USB2Serial and make RTS(mixw) to DSR(Avala-01 SDR)cross port conection to switch RX/TX from Mixw. I now there is a solution with loop.dll but I like to work with Mixw and I am not redy to change to non functional MultiPSK interface. One more com port (like in PowerSDR) and virtual com driver will solve a problem of interfacing kgksdr and softwares like Mixw or DM780.

Sorry for bad English,
Dusan, YT1DL

1448. Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 14:01:21 UTC
From: n3hkn
Topic: 1448 Message: 1448

Ver 65 SoftSDR RTX XP/SP3

I have a Santa Cruz card selected in ASIO and the two receive (line-in & speaker)selected. This works ok. Now I want to use the on-board audio for transmit. However, the MIC IN and TX IQ output only show the Santa Cruz card. I believe that the on-board audio is ok because in Rocky I have it selected as the transmit audio and it works. Xmit and Recv ok. COM port does not release but that is unrelated there.

So, how to I get KGKSDR to allow me to select the on-board audio. Is this due to ASIO settings? Windows default is Santa Cruz.

Regards,
Dick N3HKN

1449. Re: Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 15:29:55 UTC
From: Uli
Topic: 1448 Message: 1449

Hi Dick,

KGKSDR -> Options -> Transceiver. Klick Control Panel
Can you see your onboard soundcard on the left side. If yes activate it. If no, I don't know HI

Then leave this window (red cross) and APPLY, OK

Again KGKSDR -> Options -> Transceiver,
then you can see your card.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@...> wrote:
>
> Ver 65 SoftSDR RTX XP/SP3
>
> I have a Santa Cruz card selected in ASIO and the two receive (line-in & speaker)selected. This works ok. Now I want to use the on-board audio for transmit. However, the MIC IN and TX IQ output only show the Santa Cruz card. I believe that the on-board audio is ok because in Rocky I have it selected as the transmit audio and it works. Xmit and Recv ok. COM port does not release but that is unrelated there.
>
> So, how to I get KGKSDR to allow me to select the on-board audio. Is this due to ASIO settings? Windows default is Santa Cruz.
>
> Regards,
> Dick N3HKN
>

1450. Re: [kgksdr] Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 16:28:11 UTC
From: Duncan Munro
Topic: 1448 Message: 1450

n3hkn wrote:
> Ver 65 SoftSDR RTX XP/SP3
>
> I have a Santa Cruz card selected in ASIO and the two receive (line-in & speaker)selected. This works ok. Now I want to use the on-board audio for transmit. However, the MIC IN and TX IQ output only show the Santa Cruz card. I believe that the on-board audio is ok because in Rocky I have it selected as the transmit audio and it works. Xmit and Recv ok. COM port does not release but that is unrelated there.
>
> So, how to I get KGKSDR to allow me to select the on-board audio. Is this due to ASIO settings? Windows default is Santa Cruz.

Hi Dick, you would need to ensure that you are using ASIO4ALL as your inbuilt soundcard is unlikely to support ASIO "out of the box". You might want to put the SC card through ASIO4ALL as well as this simplifies things.

73,

Duncan
M0KGK

1451. Re: Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 17:07:21 UTC
From: n3hkn
Topic: 1448 Message: 1451

I think that it is ASIO problem. I have ver-2.9. The audio card I select in ASIO is the ONLY card that KGSDR will show in the four selection boxes on the left side of the Transceiver options screen. That make all four boxes wither the Santa Cruz card or the on board Realtek card. Only one card is ever shown on the scroll down list.

Dick N3HKN

--- In kgksdr@yahoogroups.com, "Uli" <uli@...> wrote:
>
> Hi Dick,
>
> KGKSDR -> Options -> Transceiver. Klick Control Panel
> Can you see your onboard soundcard on the left side. If yes activate it. If no, I don't know HI
>
> Then leave this window (red cross) and APPLY, OK
>
> Again KGKSDR -> Options -> Transceiver,
> then you can see your card.
>
> 73
> Uli
> DF5SF
>
> --- In kgksdr@yahoogroups.com, "n3hkn" <n3hkn@> wrote:
> >
> > Ver 65 SoftSDR RTX XP/SP3
> >
> > I have a Santa Cruz card selected in ASIO and the two receive (line-in & speaker)selected. This works ok. Now I want to use the on-board audio for transmit. However, the MIC IN and TX IQ output only show the Santa Cruz card. I believe that the on-board audio is ok because in Rocky I have it selected as the transmit audio and it works. Xmit and Recv ok. COM port does not release but that is unrelated there.
> >
> > So, how to I get KGKSDR to allow me to select the on-board audio. Is this due to ASIO settings? Windows default is Santa Cruz.
> >
> > Regards,
> > Dick N3HKN
> >
>

1452. Re: Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 17:56:12 UTC
From: n3hkn
Topic: 1448 Message: 1452

In ASIO v-2.9 I can select either card (Santa Cruz or Onboard). The one I select is the only one presented for selection in the four scroll boxes for Receive and Transmit. I assume I would want the Receive to use Santa Cruz and Transmit to use the onboard. Jts never presented with more that a single card type that is dependent upon what is checked in ASIO. I tried to find a way in ASIO to select both at the same time but no luck.

Dick N3HKN

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> n3hkn wrote:
> > Ver 65 SoftSDR RTX XP/SP3
> >
> > I have a Santa Cruz card selected in ASIO and the two receive (line-in & speaker)selected. This works ok. Now I want to use the on-board audio for transmit. However, the MIC IN and TX IQ output only show the Santa Cruz card. I believe that the on-board audio is ok because in Rocky I have it selected as the transmit audio and it works. Xmit and Recv ok. COM port does not release but that is unrelated there.
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> > So, how to I get KGKSDR to allow me to select the on-board audio. Is this due to ASIO settings? Windows default is Santa Cruz.
>
> Hi Dick, you would need to ensure that you are using ASIO4ALL as your
> inbuilt soundcard is unlikely to support ASIO "out of the box". You
> might want to put the SC card through ASIO4ALL as well as this
> simplifies things.
>
> 73,
>
> Duncan
> M0KGK
>

1453. Re: Can't Select Transnit Audio

Yahoo group: kgksdr
Date: 2009-04-09 18:36:07 UTC
From: Uli
Topic: 1448 Message: 1453

```
>
> I think that it is ASIO problem. I have ver-2.9. ......

Hi Dick,

I have had difficulties with this version. Now I use the old V2.8 and all works fine. Try
this version.

73
Uli
DF5SF
```

1454. KGKSDR, any updates?

Yahoo group: kgksdr
Date: 2009-04-15 12:15:11 UTC
From: Janne Pulkkinen
Topic: 1454 Message: 1454

Just wanted to ask if any updates will follow in near future.

73 de Janne, OH1SDR

1455. Re: [kgksdr] KGKSDR, any updates?

Yahoo group: kgksdr
Date: 2009-04-15 13:15:37 UTC
From: Duncan Munro
Topic: 1454 Message: 1455

Janne Pulkkinen wrote:
> Just wanted to ask if any updates will follow in near future.

Hi Janne,

Yes, there will be further updates don't know how much in the near
future due to pressures of work, but there will be further updates :-)

73,

Duncan
M0KGK

1456. Avala-01+KGKSDR+MixW+MultiPSk+WinPSK++

Yahoo group: kgksdr
Date: 2009-04-29 22:18:46 UTC
From: yt1dl
Topic: 1456 Message: 1456

I am in progress of making online manual of how to setup SDR software with diferent digmode programs and Avala-01 SDR transceiver from Tasa, YU1LM. Visit http://yt1dl.veze.net/sdr.html and check.

vy 73 de YT1DL, Dusan

1457. Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 18:35:36 UTC
From: Chris Roselaar
Topic: 1457 Message: 1457

Hi All,
The mouse-wheel function to increase of decrease frequency step-size does not function most of the times. 1 out of 10 times (or less) I can indeed step-up or step-down. So far I did not magane to observe any correlation between the not-working of this function and other things I do with the user-interface.
Does anyone have a clue as to why I experience this problem? Am I the only one?
Thanks for any feedback!
73's Christiaan PA3FUN

1458. Re: [kgksdr] Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 18:45:53 UTC
From: Duncan Munro
Topic: 1457 Message: 1458

Chris Roselaar wrote:
> Hi All,
> The mouse-wheel function to increase of decrease frequency step-size does not function most of the times. 1 out of 10 times (or less) I can indeed step-up or step-down. So far I did not magane to observe any correlation between the not-working of this function and other things I do with the user-interface.
> Does anyone have a clue as to why I experience this problem? Am I the only one?
> Thanks for any feedback!

Hi Christian,

Is your CPU usage high (> 70%)? If so it might be the machine is having
trouble keeping up.

73,

Duncan
M0KGK

1459. Re: Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 18:59:29 UTC
From: Chris Roselaar
Topic: 1457 Message: 1459

> Is your CPU usage high (> 70%)? If so it might be the machine is having
> trouble keeping up.

Hi Duncan,
I'm running < 10%CPU on a 3.4Ghz HP P4-HyperThreading, Win-XP, 2Gb. So I don't think that's the reason.
I will continue to be alert for any correlation with other GUI-events or actions. So far no clue... Btw this effect is present on my 2nd PC as well (3.4Ghz Dell P4-HT CPU (XP, 1Gb).
Tnx

1460. Re: [kgksdr] Re: Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 19:13:09 UTC
From: Duncan Munro
Topic: 1457 Message: 1460

Chris Roselaar wrote:
>> Is your CPU usage high (> 70%)? If so it might be the machine is having
>> trouble keeping up.
>
> Hi Duncan,
> I'm running < 10%CPU on a 3.4Ghz HP P4-HyperThreading, Win-XP, 2Gb. So I don't think that's the reason.
> I will continue to be alert for any correlation with other GUI-events or actions. So far no clue... Btw this effect is present on my 2nd PC as well (3.4Ghz Dell P4-HT CPU (XP, 1Gb).

That's a nice fast machine so not the problem as you say. Do you use
the mouse wheel on other apps, is it OK on those?

73,

Duncan
M0KGK

1461. Re: Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 19:41:46 UTC
From: Chris Roselaar
Topic: 1457 Message: 1461

> That's a nice fast machine so not the problem as you say. Do you use
> the mouse wheel on other apps, is it OK on those?
>
> 73,
>
> Duncan
> M0KGK
>

Duncan,
I just managed to reproduce the problem.
If I start up KGKSDR, the app does not respond to the mousewheel-button.
Only after I have moved the reception-window through clicking-and-sliding the app respondd to the mouse-wheeldown.
For me this is enough, I now have a work-around hi hi.
Btw since the problem occurs on two different machines I do not think it is correlated to the machine(s). Could it be an initialisation-issue in the (highly apreciated ;)) software?
73's Christiaan PA3FUN

1462. Re: Mouse wheel

Yahoo group: kgksdr
Date: 2009-05-04 20:08:34 UTC
From: Chris Roselaar
Topic: 1457 Message: 1462

Dunca,
Guess what: I do not need to slide the receiving-window in order to get the mouse-wheeldown button to function according to spec. What is necessary however is to have the cursor in the spectogram-window when I click the mouse-wheeldown button.
Did I overlook something in the documentation?
I feel a bit stupid but what did I miss?
And my apologies for the fact that I suggested the software to have a bug causing this issue ....
73's Christiaan PA3FUN

1463. Re: KGKSDR, any updates?

Yahoo group: kgksdr
Date: 2009-05-07 12:54:40 UTC
From: Ken H>
Topic: 1454 Message: 1463

Hello Duncan - Just a short note to say you sure do have a NICE program and I'd just like to say "THANK YOU" for your contribution to the ham groups with this SDR program.

You mention other updates to the program are planned - do you have a list of things you plan to update?

Understanding, this will be done as you get time - like the rest of us you do have work and family obligations that come first.

73 de Ken H> K9FV

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Janne Pulkkinen wrote:
> > Just wanted to ask if any updates will follow in near future.
>
> Hi Janne,
>
> Yes, there will be further updates don't know how much in the near
> future due to pressures of work, but there will be further updates :-)
>
> 73,
>
> Duncan
> M0KGK
>

1464. Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 15:54:57 UTC
From: Janne Pulkkinen
Topic: 1464 Message: 1464

I've noticed that when disconnecting the antenna on KGKSDR the background noise doesn't change almost at all. On PowerSDR disconnecting the antenna lowers the noise relatively to the drop of the background, just like in traditional radios.

I just feel that weak signals are more comfortable to listen on PowerSDR because of this difference. AGC settings didn't seem change this behavior on either of the softwares.

Is it something about digital gain used in the softwares?
Any ideas what is causing this difference?

73 de Janne, OH1SDR

1465. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 17:54:39 UTC
From: Duncan Munro
Topic: 1464 Message: 1465

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:

> Is it something about digital gain used in the softwares?
> Any ideas what is causing this difference?

Hi Janne,

The likely reason is that the AGC gain in KGKSDR is unlimited, it will keep going up until the noise triggers it. There is an internal limit to prevent a zero signal from sending the gain to infinity.

Anyway... I've re-introduced the RF gain limit control, so hopefully this should make the listening experience better for you. The download is available from http://www.m0kgk.co.uk/sdr/download.php

73,

Duncan
M0KGK

1466. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 18:17:56 UTC
From: Janne Pulkkinen
Topic: 1464 Message: 1466

> Hi Janne,
>
> The likely reason is that the AGC gain in KGKSDR is unlimited, it will keep going up until the noise triggers it. There is an internal limit to prevent a zero signal from sending the gain to infinity.
>
> Anyway... I've re-introduced the RF gain limit control, so hopefully this should make the listening experience better for you. The download is available from http://www.m0kgk.co.uk/sdr/download.php
>
> 73,
>
> Duncan
> M0KGK
>

Oh my goodness, what can I say, unbelievable!

Thank you Duncan. I will do a test run immediately!
I will share the results soon!

73 de Janne, OH1SDR

1467. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 18:51:09 UTC
From: Janne Pulkkinen
Topic: 1464 Message: 1467

>
> The likely reason is that the AGC gain in KGKSDR is unlimited, it will keep going up until the noise triggers it. There is an internal limit to prevent a zero signal from sending the gain to infinity.
>
> Anyway... I've re-introduced the RF gain limit control, so hopefully this should make the listening experience better for you. The download is available from http://www.m0kgk.co.uk/sdr/download.php
>
> 73,
>
> Duncan
> M0KGK
>

Ok, lets continue:

I installed the new version. To be honest, I have to test it a bit longer/listen it more to comment about the 1.1 version, but meanwhile I recorded two samples. The first one is recorded with KGKSDR 1.1 and the second one with PowerSDR, just to show the difference.

For the first 5 seconds the antenna is disconnected and then connected. The squelch on PowerSDR was off.

http://www.saunalahti.fi/~johku76/media/kgksdr.mp3

http://www.saunalahti.fi/~johku76/media/powersdr.mp3

I hope that I sound constructive with my comments, that is my intention.

73 de Janne, OH1SDR

1468. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 19:24:55 UTC
From: Duncan Munro
Topic: 1464 Message: 1468

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:

> For the first 5 seconds the antenna is disconnected and then connected. The squelch on PowerSDR was off.
>
> http://www.saunalahti.fi/~johku76/media/kgksdr.mp3
> http://www.saunalahti.fi/~johku76/media/powersdr.mp3

Hi Janne,

I've had a look at the kgksdr mp3, there is a click at 4.64 seconds which knocks the AGC back although it recovers in approx 0.1 second so I assume you have the AGC on fast. The levels of signal on both sides are almost identical, within about 1dB.

The powersdr mp3 changes level at 5.29 seconds, and jumps up to an RMS level around 9dB higher than before.

I would say the gain on KGKSDR is still open enough to max out the noise, and is clearly reducing the gain when you plug the antenna in.

Is the kgksdr recording done with the very latest version or the earlier version? If it's on the newest version have you reduced the RF Gain to drop the residual noise down a little? Are both done on the same soundcard?

Sorry for all the questions!

73,

Duncan
M0KGK

1469. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 19:37:39 UTC
From: Uli
Topic: 1464 Message: 1469

Hi Janne, hi Duncan,

have here the same experience as Janne and there is no difference between the old an new version of KGKSDR.

73
Uli
DF5SF

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:
>
>
> I've noticed that when disconnecting the antenna on KGKSDR the background noise doesn't change almost at all. On PowerSDR disconnecting the antenna lowers the noise relatively to the drop of the background, just like in traditional radios.
>
> I just feel that weak signals are more comfortable to listen on PowerSDR because of this difference. AGC settings didn't seem change this behavior on either of the softwares.
>
> Is it something about digital gain used in the softwares?
> Any ideas what is causing this difference?
>
>
> 73 de Janne, OH1SDR
>

1470. Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 19:40:05 UTC
From: Janne Pulkkinen
Topic: 1464 Message: 1470

> Hi Janne,
>
> I've had a look at the kgksdr mp3, there is a click at 4.64 seconds which knocks the AGC back although it recovers in approx 0.1 second so I assume you have the AGC on fast. The levels of signal on both sides are almost identical, within about 1dB.
>
> The powersdr mp3 changes level at 5.29 seconds, and jumps up to an RMS level around 9dB higher than before.
>
> I would say the gain on KGKSDR is still open enough to max out the noise, and is clearly reducing the gain when you plug the antenna in.
>
> Is the kgksdr recording done with the very latest version or the earlier version? If it's on the newest version have you reduced the RF Gain to drop the residual noise down a little? Are both done on the same soundcard?
>
> Sorry for all the questions!
>
> 73,
>
> Duncan
> M0KGK

Hi Duncan,

guess what, you don't have to examine more, I was blind :)
I just noticed the RF gain control, hahaha. Lowering it a bit I can get really good contrast between antenna connected/disconnected!

Actually it sound awesome now! I'd say it sound superb!!!

Thank you so much Duncan!!!

73 de Janne, OH1SDR

1471. Re: [kgksdr] Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 19:54:11 UTC
From: Duncan Munro
Topic: 1464 Message: 1471

Janne Pulkkinen wrote:

> Hi Duncan,
>
> guess what, you don't have to examine more, I was blind :)
> I just noticed the RF gain control, hahaha. Lowering it a bit I can get really good contrast between antenna connected/disconnected!
>
> Actually it sound awesome now! I'd say it sound superb!!!
>
> Thank you so much Duncan!!!

Good news, I can go for a beer now :-)

Uli: Are you still having problems if you move the RF gain down?

73,

Duncan
M0KGK

1472. Re: [kgksdr] Re: Background noise on KGKSDR and PowerSDR.

Yahoo group: kgksdr
Date: 2009-05-19 19:58:49 UTC
From: uli
Topic: 1464 Message: 1472

```
>
> Good news, I can go for a beer now :-)
>
> Uli: Are you still having problems if you move the RF gain down?
>
If RF gain is at position 8 all is Ok !!!!
Have a nice evening

73
Uli
DF5SF
```

1473. AGC at Digimode - an idea.

Yahoo group: kgksdr
Date: 2009-05-26 09:45:26 UTC
From: Janne Pulkkinen
Topic: 1473 Message: 1473

One major problem with radios on digimodes is the behaviour of the AGC because strong signals inside the bandpass (for example 3kHz). Often a weak signal is blocked because strong signal is turning the AGC gain down.

One major advance I have experienced with KGKSDR and WINPSK, is the use of really narrow (100Hz) filter on KGKSDR and thus usually no other PSK signals on the same bandpass effecting the AGC.

What if... what if the AGC on KGKSDR could be turned off? Same S/N relation should be passed to the digimode software and decoding would be as good as with AGC with the exception that we could pass the whole PSK section to the digimode software without the AGC blocking effect.

Am I correct?

73 de Janne, OH1SDR

1474. SoftRock 6.1 Configuration Question

Yahoo group: kgksdr
Date: 2009-06-13 18:27:44 UTC
From: AF4PM
Topic: 1474 Message: 1474

When connecting the SR to the computer the diagram shows using DTR and GND connected to the PTT-In and GND input on the board. The difficulty is that the RS-232 input levels are +/- 5.5V and not the +/- 10V that the diagram indicates. While differentially there is enough to trigger the amplifier section the single-ended output of the DTR line is not sufficient. Is there a standard fix for the level shift or do I just need to build an interface to switch 12 V with the RS-232 signal lines?

Thanks,
AF4PM

1475. Re: SoftRock 6.1 Configuration Question

Yahoo group: kgksdr
Date: 2009-06-13 18:59:48 UTC
From: g8voip
Topic: 1474 Message: 1475

Hi there,

The PTT input for the v6.1 TX/RX has a divider of 2 x 10k resistors driving the base of Q7. With the DTR line input at +5V, should be more than enough to fully turn Q1 on. When DTR goes to -5V, Q1 is turned off.

It is a long time since I wired up and used my v6.1 TX/RX, but I did not have any problems either on a laptop or my main PC RS232 port.

73, Bob G8VOI

--- In kgksdr@yahoogroups.com, "AF4PM" <skinow@...> wrote:
>
> When connecting the SR to the computer the diagram shows using DTR and GND connected to the PTT-In and GND input on the board. The difficulty is that the RS-232 input levels are +/- 5.5V and not the +/- 10V that the diagram indicates. While differentially there is enough to trigger the amplifier section the single-ended output of the DTR line is not sufficient. Is there a standard fix for the level shift or do I just need to build an interface to switch 12 V with the RS-232 signal lines?
>
> Thanks,
> AF4PM
>

1476. Re: SoftRock 6.1 Configuration Question

Yahoo group: kgksdr
Date: 2009-06-13 19:18:34 UTC
From: AF4PM
Topic: 1474 Message: 1476

I'll check the divider to see what the voltages are, but at the moment it works with 12 V on the PTT-in and not with +5 from DTR.

Thanks,
AF4PM

--- In kgksdr@yahoogroups.com, "g8voip" <g8voi.reeves59@...> wrote:
>
> Hi there,
>
> The PTT input for the v6.1 TX/RX has a divider of 2 x 10k resistors driving the base of Q7. With the DTR line input at +5V, should be more than enough to fully turn Q1 on. When DTR goes to -5V, Q1 is turned off.
>
> It is a long time since I wired up and used my v6.1 TX/RX, but I did not have any problems either on a laptop or my main PC RS232 port.
>
> 73, Bob G8VOI
>
>
>
>
> --- In kgksdr@yahoogroups.com, "AF4PM" <skinow@> wrote:
> >
> > When connecting the SR to the computer the diagram shows using DTR and GND connected to the PTT-In and GND input on the board. The difficulty is that the RS-232 input levels are +/- 5.5V and not the +/- 10V that the diagram indicates. While differentially there is enough to trigger the amplifier section the single-ended output of the DTR line is not sufficient. Is there a standard fix for the level shift or do I just need to build an interface to switch 12 V with the RS-232 signal lines?
> >
> > Thanks,
> > AF4PM
> >
>

1477. Re: SoftRock 6.1 CW Configuration Question

Yahoo group: kgksdr
Date: 2009-06-15 01:16:35 UTC
From: AF4PM
Topic: 1474 Message: 1477

Ok, Now I finally got everything to trigger properly and I can get power out using the "tune" button, so I know that the softrock is working properly. The difficulty is that I am not able to get the software to produce CW using the key. I have the key configured so that it connects CTS and RTS when pressed. This will switch the SR into Transmit, but does not produce a tone. I am operating 12 KHz away from the center Frequency (7042.5 KHz with a center of 7056 KHz). As indicated above if I press the tune button, then it does produce a tone and power out.

I suspect that I have something set wrong in the software so that it is not producing a tone when pressed. I have the side-tone set to 600Hz and am using CWL.

Any assistance would be appreciated.

Thanks,
AF4PM

1478. Re: [kgksdr] Re: SoftRock 6.1 CW Configuration Question

Yahoo group: kgksdr
Date: 2009-06-15 18:48:14 UTC
From: uli
Topic: 1474 Message: 1478

Hello Craig,

I have had also some difficulties with the serial interface, but it's a long time ago ...
I think Softrock is ok and you have problems with the serial interface.
Do you use any USB/RS232 interface ?
Can you please meassure the voltage at CTS and RTS if the key is on and off.
I think RTS must change.

73
Uli
DF5SF

> Ok, Now I finally got everything to trigger properly and I can get power out using the "tune" button, so I know that the softrock is working properly. The difficulty is that I am not able to get the software to produce CW using the key. I have the key configured so that it connects CTS and RTS when pressed. This will switch the SR into Transmit, but does not produce a tone. I am operating 12 KHz away from the center Frequency (7042.5 KHz with a center of 7056 KHz). As indicated above if I press the tune button, then it does produce a tone and power out.
>
> I suspect that I have something set wrong in the software so that it is not producing a tone when pressed. I have the side-tone set to 600Hz and am using CWL.
>
> Any assistance would be appreciated.
>
> Thanks,
> AF4PM

1479. kgksdr newbie

Yahoo group: kgksdr
Date: 2009-07-02 04:51:06 UTC
From: w5xz@att.net
Topic: 1479 Message: 1479

greetings from texas

this software looks interesting. seems like its about
halfway between rocky and powerSDR. i get the sense that
flex support for softrocks is fading.....

i'm working on a sr rxtx6.3 transciever & 9v1al mobo.

there is, however, no direct control over the si570, right?

and does it somehow interface with the 9v1al mobo to change
bands?

tnx, 73, w5xz, dan

1480. Re: [kgksdr] kgksdr newbie

Yahoo group: kgksdr
Date: 2009-07-07 11:31:25 UTC
From: Anjo Gragt
Topic: 1479 Message: 1480

Hi Dan
sorry for the late response I forgot all about this email acount.
Hope youre stil alive.

I use this software for my softrock 6.2-40/80 and it is working OK.
I also use Rocky which is also good.
If you like a spectrum display then
Rocky is superior over all the other programs. Its even better then
spectrum analyzers which cost thousends of dollars. HI
I use a VFO with LCD readout and an si570 which works very good
U must defenitly become a member of the softrock40 yahoo group
because ther is a mountain of information there to find. You can
find me under the foto's with my call PA0FAN.
I build a separate I/Q microphone amplifier to use with the sr
so I am not depending on the tx software I also build a 10 Watt
PA after the sr to get a litle bit more power.
Further I am experimenting with some Linux software because the ultimate
goal is to write my own sdr software.
There is in Rocky and KGKSDR control over the si570 via then usb
i believe for Rocky I am sure
I am not using powerSDR because it acts a litlle strange on my system
but many people over here use it because they boud an FLEX system and
they are very satisfied with it.

73 de PA0FAN
Greetings from holland
Anjo

--- On Wed, 7/1/09, w5xz@... <w5xz@...> wrote:

From: w5xz@... <w5xz@...>
Subject: [kgksdr] kgksdr newbie
To: kgksdr@yahoogroups.com
Date: Wednesday, July 1, 2009, 9:51 PM

greetings from texas

this software looks interesting. seems like its about
halfway between rocky and powerSDR. i get the sense that
flex support for softrocks is fading.....

i'm working on a sr rxtx6.3 transciever & 9v1al mobo.

there is, however, no direct control over the si570, right?

and does it somehow interface with the 9v1al mobo to change
bands?

tnx, 73, w5xz, dan

Yahoo! Groups Links

1481. Re: [kgksdr] kgksdr newbie

Yahoo group: kgksdr
Date: 2009-07-07 14:31:22 UTC
From: dan edwards
Topic: 1479 Message: 1481

anjo

thanks for the note. xyl and i vacationed in your country in may this year. nice place. nice people, too.

there does not seem to be much activity on this group. does it mostly depend on how much free time Duncan has? or, are other people working on the software?

so far, i am able to use powerSDR (SDR-IQ by SV1EIA) on receive. my transmitter is not ready to test (yet). but, i like to keep my software options open.

my heavy preference is 160 meters, with occasional contest from W5WMU as multi-op or guest op.

73 from texas, w5xz, dan

--- On Tue, 7/7/09, Anjo Gragt <anjo.gragt@...> wrote:

From: Anjo Gragt <anjo.gragt@...>
Subject: Re: [kgksdr] kgksdr newbie
To: kgksdr@yahoogroups.com
Date: Tuesday, July 7, 2009, 11:31 AM

Hi Dan
sorry for the late response I forgot all about this email acount.
Hope youre stil alive.

I use this software for my softrock 6.2-40/80 and it is working OK.
I also use Rocky which is also good.
If you like a spectrum display then
Rocky is superior over all the other programs. Its even better then
spectrum analyzers which cost thousends of dollars. HI
I use a VFO with LCD readout and an si570 which works very good
U must defenitly become a member of the softrock40 yahoo group
because ther is a mountain of information there to find. You can
find me under the foto's with my call PA0FAN.
I build a separate I/Q microphone amplifier to use with the sr
so I am not depending on the tx software I also build a 10 Watt
PA after the sr to get a litle bit more power.
Further I am experimenting with some Linux software because the ultimate
goal is to write my own sdr software.
There is in Rocky and KGKSDR control over the si570 via then usb
i believe for Rocky I am sure
I am not using powerSDR because it acts a litlle strange on my system
but many people over here use it because they boud an FLEX system and
they are very satisfied with it.

73 de PA0FAN
Greetings from holland
Anjo

--- On Wed, 7/1/09, w5xz@att..net <w5xz@att.net> wrote:

From: w5xz@... <w5xz@...>
Subject: [kgksdr] kgksdr newbie
To: kgksdr@yahoogroups. com
Date: Wednesday, July 1, 2009, 9:51 PM

greetings from texas

this software looks interesting. seems like its about
halfway between rocky and powerSDR. i get the sense that
flex support for softrocks is fading.....

i'm working on a sr rxtx6.3 transciever & 9v1al mobo.

there is, however, no direct control over the si570, right?

and does it somehow interface with the 9v1al mobo to change
bands?

tnx, 73, w5xz, dan

---------- --------- --------- ------

Yahoo! Groups Links

1482. Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-09 07:26:12 UTC
From: pinojns
Topic: 1482 Message: 1482

```
Notice about it ?
Pino IK1JNS
```

1483. Re: [kgksdr] Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-09 08:52:34 UTC
From: Alan
Topic: 1482 Message: 1483

```
----- Original Message -----
From: "pinojns" Subject: [kgksdr] Invalid floating poin operation

> Notice about it ?

This may be a soundcard problem.
Someone using Rocky solved it with the latest souncard drivers.
Or try another card.

73
Alan G4ZFQ
```

1484. Re: Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-09 09:50:05 UTC
From: pinojns
Topic: 1482 Message: 1484

> This may be a soundcard problem.
> Someone using Rocky solved it with the latest souncard drivers.
> Or try another card.
>
> 73
> Alan G4ZFQ
>
It is very strange, I'm tested on three pc and i have same problem.

1) pc acer notebook aspire 5630
2) pc Desktop PIV
3) pc Desktop PIII

I'm using avala01 board and when I calibrating image disappears, but when i click OK, return error !!

Pino IK1JNS

1485. Re: [kgksdr] Re: Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-09 19:05:18 UTC
From: Janne Pulkkinen
Topic: 1482 Message: 1485

>I'm using avala01 board and when I calibrating image disappears, but when i click OK, return >error !!
>Pino IK1JNS

This was widely discussed some time a go. I had the same problem. The problem was with my hardware, making the IQ amplitude balance too big and thus calibration values so high that they couldn't be saved. Sounds like you might have the same problem.

What kind of phase and amplitude values you have when your image is "gone" ?

73 de Janne, OH1SDR

1486. Re: Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-11 12:22:40 UTC
From: pinojns
Topic: 1482 Message: 1486

```
>  What kind of phase and amplitude values you have when your image is "gone" ?
>
> 73 de Janne, OH1SDR
>
```

Dear Janne,
I printed my screen with parameters, can you see first and later calibration.

http://www.panniello.it/gallery/?level=album&id=11

73 de pino@ik1jns

1487. Re: [kgksdr] Re: Invalid floating poin operation

Yahoo group: kgksdr
Date: 2009-07-11 17:29:52 UTC
From: Duncan Munro
Topic: 1482 Message: 1487

pinojns wrote:
>> What kind of phase and amplitude values you have when your image is "gone" ?
>>
>> 73 de Janne, OH1SDR
>>
>
> Dear Janne,
> I printed my screen with parameters, can you see first and later calibration.
>
> http://www.panniello.it/gallery/?level=album&id=11

Hi Pino, I'm a bit worried about the 7.5 degrees difference from the normal I-Q of 90 degrees.

Can you delete all calibration maps, switch to automatic and let the map build up for a day or so (or until you get a crash). Let me know when you have done this, and I'll explain what files you need to send to me so I can try and duplicate the problem here.

Delete calibration maps instructions can be found under Help -> Troubleshooting -> Troubleshoot RX Problems -> Overflow Error.

Automatic calibration can be set by going to Options -> Transceiver -> General, make sure Manual is unchecked, Collect auto cal data is checked, Collection rate is normal, and you can turn apply calibration off as this might stop it crashing as it collects the data.

73,

Duncan
M0KGK

1488. ASIO4ALL download

Yahoo group: kgksdr
Date: 2009-07-12 20:45:33 UTC
From: Ed Hekman
Topic: 1488 Message: 1488

Hi,

I have tried to download ASIO4ALL from several sites with the same result. The download proceeds for a while then slows to less than 1k bytes/sec and eventually times out. I did successfully download v1.9 from the Flex-Radio site but that is an old version that does not recognize any sound cards. I assume that the problem is that the file extension is .exe but can't find any IE setting that may block these downloads.

Does anyone have a suggestion?

Thanks,
Ed
WB6YTE

1489. Re: ASIO4ALL download

Yahoo group: kgksdr
Date: 2009-07-15 03:45:32 UTC
From: Ed Hekman
Topic: 1488 Message: 1489

Thanks for the direct response fom Uli, DF5SF.

Ed
--- In kgksdr@yahoogroups.com, "Ed Hekman" <wb6yte@...> wrote:
>
> Hi,
>
> I have tried to download ASIO4ALL from several sites with the same result. The download proceeds for a while then slows to less than 1k bytes/sec and eventually times out. I did successfully download v1.9 from the Flex-Radio site but that is an old version that does not recognize any sound cards. I assume that the problem is that the file extension is .exe but can't find any IE setting that may block these downloads.
>
> Does anyone have a suggestion?
>
> Thanks,
> Ed
> WB6YTE
>

1490. KGKSDR hangs after the 'Initialisation complete' message

Yahoo group: kgksdr
Date: 2009-07-15 03:50:20 UTC
From: Ed Hekman
Topic: 1490 Message: 1490

I did something to the configuration here that prevents KGKSDR from starting up. I think I attempted to set the sample rate to something that was not supported. Even uninstalling and reinstalling the program does not fix it. What else can I do to restore it to the configuration of a fresh installation?

Thanks,
Ed
WB6YTE

1491. KGKSDR signal meter after last update.

Yahoo group: kgksdr
Date: 2009-07-15 07:01:40 UTC
From: Janne Pulkkinen
Topic: 1491 Message: 1491

I really like the "RF" control improvement in the last version. It makes the KGKSDR's RX behave more like traditional RX and there's
no more the background noise issue.

I'm just wondering a bit, why the S-meter is acting like the RF slide would be RF gain -control (when lowering the RF slide, the S-meter bar rises)?

Isn't it something like AGC threshold? Or am I totally wrong?

Anyways, either way, it would definitely great to see what happens on the S-meter even after the RF control is dropped down.

73 de Janne, OH1SDR

1492. Re: [kgksdr] KGKSDR signal meter after last update.

Yahoo group: kgksdr
Date: 2009-07-15 07:15:30 UTC
From: Alan
Topic: 1491 Message: 1492

```
----- Original Message -----
From: "Janne Pulkkinen"
>
> I'm just wondering a bit, why the S-meter is acting like the RF slide
> would be RF gain -control (when lowering the RF slide, the S-meter bar
> rises)?
>

This is often what happens with conventional receivers.
It seems a good way of indicating that the RF gain is reduced and it also
reminds you that signals below that level may not be heard.

73 Alan G4ZFQ
```

1493. Re: KGKSDR signal meter after last update.

Yahoo group: kgksdr
Date: 2009-07-15 08:41:32 UTC
From: Janne Pulkkinen
Topic: 1491 Message: 1493

>
> This is often what happens with conventional receivers.
> It seems a good way of indicating that the RF gain is reduced and it also
> reminds you that signals below that level may not be heard.
>
> 73 Alan G4ZFQ
>

Hi Alan!

Yeah, I am familiar the way how RF gain works in conventional receivers and I already mentioned that the "RF slide acts like an RF gain", but I have the impression that it actually controls the threshold of AGC and thus the effect of rising S-meter bar isn't desirable. I'm not sure about the way Duncan did the the RF control, but it surely acts exactly the same way as AGC threshold control in Winrad and it doesn't raise the signal bar when it's adjusted for lower gain.

The RX control was added because the infinite AGC gain was causing
much noise compared to the background level. I thought it was added to control the characteristics of the AGC?

73 de Janne OH1SDR

1494. Re: KGKSDR signal meter after last update.

Yahoo group: kgksdr
Date: 2009-07-15 09:12:29 UTC
From: Duncan Munro
Topic: 1491 Message: 1494

--- In kgksdr@yahoogroups.com, "Janne Pulkkinen" <iami78@...> wrote:

> Yeah, I am familiar the way how RF gain works in conventional receivers and I already mentioned that the "RF slide acts like an RF gain", but I have the impression that it actually controls the threshold of AGC and thus the effect of rising S-meter bar isn't desirable. I'm not sure about the way Duncan did the the RF control, but it surely acts exactly the same way as AGC threshold control in Winrad and it doesn't raise the signal bar when it's adjusted for lower gain.
>
> The RX control was added because the infinite AGC gain was causing
> much noise compared to the background level. I thought it was added to control the characteristics of the AGC?

Hi Janne, I set it up in the same way as the analogue paradigm, like a potentiometer going through to the AGC line with a diode. There were 2 reasons, (1) I understand how it works and (2) it was easy to do :-)

I'll fix the internals so that RF gain will limit gain without affecting the AGC line and hence S meter. Can't do it tonight, but will do it tomorrow night.

73,

Duncan
M0KGK

1495. Re: [kgksdr] KGKSDR hangs after the 'Initialisation complete' message

Yahoo group: kgksdr
Date: 2009-07-15 16:03:18 UTC
From: Duncan Munro
Topic: 1490 Message: 1495

Ed Hekman wrote:
> I did something to the configuration here that prevents KGKSDR from starting up. I think I attempted to set the sample rate to something that was not supported. Even uninstalling and reinstalling the program does not fix it. What else can I do to restore it to the configuration of a fresh installation?

Hi Ed, you could go in and delete the registry entries, that's the only way I can think of.

Go to the start button, Run..., then key in regedit.exe in the box. Press OK.

Navigate down to HKEY_CURRENT_USER, then Software, then Duncan Amplification. Right click on M0KGK IQ Decoder and select Delete.

73,

Duncan
M0KGK

1496. Re: KGKSDR hangs after the 'Initialisation complete' message

Yahoo group: kgksdr
Date: 2009-07-16 07:01:18 UTC
From: Ed Hekman
Topic: 1490 Message: 1496

--- In kgksdr@yahoogroups.com, Duncan Munro <m0kgk@...> wrote:
>
> Ed Hekman wrote:
> > I did something to the configuration here that prevents KGKSDR from starting up. I think I attempted to set the sample rate to something that was not supported. Even uninstalling and reinstalling the program does not fix it. What else can I do to restore it to the configuration of a fresh installation?
>
> Hi Ed, you could go in and delete the registry entries, that's the only
> way I can think of.
>
> Go to the start button, Run..., then key in regedit.exe in the box.
> Press OK.
>
> Navigate down to HKEY_CURRENT_USER, then Software, then Duncan
> Amplification. Right click on M0KGK IQ Decoder and select Delete.
>
> 73,
>
> Duncan
> M0KGK

Thanks, Duncan. That problem is solved. I have not been successful yet in configuring it to get the receiver input to appear in the spectrum display. That is a project for tomorrow.

It looks like a very good program with the right controls readily available. My goal is to use it for digital modes. Do you have plans to develop a link to any of the standard digital modes programs available?

Thanks,
Ed
WB6YTE

1497. sound card utilitites in files, tools

Yahoo group: kgksdr
Date: 2009-07-16 19:56:39 UTC
From: w5xz@att.net
Topic: 1497 Message: 1497

duncan,

what do they tell me?

looks like good stuff, just not sure
what to make of the results.

doesnt seem to pick up my emu1212m, but i do run VAC, with
onboard realtec for baseband.

73. w5xz. dan

1498. Problems loading KGKSDR

Yahoo group: kgksdr
Date: 2009-07-17 06:05:26 UTC
From: edweal
Topic: 1498 Message: 1498

I downloawded the program but when I tried to install it ran into a problem. It started to install and then asked me for disk 2. Where is disk 2?

1499. Re: [kgksdr] Re: KGKSDR hangs after the 'Initialisation complete' message

Yahoo group: kgksdr
Date: 2009-07-17 17:13:48 UTC
From: Duncan Munro
Topic: 1490 Message: 1499

Ed Hekman wrote:

> It looks like a very good program with the right controls readily available. My goal is to use it for digital modes. Do you have plans to develop a link to any of the standard digital modes programs available?

Hi Ed,

There is some digi mode stuff available already, I've used it to contact quite a number of countries with my softrock on PSK31.

On the web page for this Yahoo group, go to messages and in the search box type winpsk. That will get you a number of messages explaining how it all works.

73,

Duncan
M0KGK

1500. Re: [kgksdr] sound card utilitites in files, tools

Yahoo group: kgksdr
Date: 2009-07-17 17:14:37 UTC
From: Duncan Munro
Topic: 1497 Message: 1500

w5xz@... wrote:
> duncan,
>
> what do they tell me?
>
> looks like good stuff, just not sure
> what to make of the results.

Hi Dan,

Which program in particular?

73,

Duncan
M0KGK

1501. Re: [kgksdr] Problems loading KGKSDR

Yahoo group: kgksdr
Date: 2009-07-17 17:16:05 UTC
From: Duncan Munro
Topic: 1498 Message: 1501

edweal wrote:
> I downloawded the program but when I tried to install it ran into a problem. It started to install and then asked me for disk 2. Where is disk 2?

Hi,

There is no disk 2. This is a sure sign that the download has not completed correctly.

I would suggest you download the software to a folder and right click, properties, to check the file size. It should match up with the file size on the download page.

73,

Duncan
M0KGK

1502. Re: KGKSDR signal meter after last update.

Yahoo group: kgksdr
Date: 2009-07-17 19:22:18 UTC
From: Janne Pulkkinen
Topic: 1491 Message: 1502

>
> Hi Janne, I set it up in the same way as the analogue paradigm, like a potentiometer going through to the AGC line with a diode. There were 2 reasons, (1) I understand how it works and (2) it was easy to do :-)
>
> I'll fix the internals so that RF gain will limit gain without affecting the AGC line and hence S meter. Can't do it tonight, but will do it tomorrow night.
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan!

Really looking forward to this. Really glad to know some detail about the software about how it was done :)

This is what SDR is all about - the properties of the radio can be enhanced by software update. Once again, thank you Duncan for your contribution to this fine hobby and SDR community! It's all about voluntariness, but I'll definitely offer you a beer and pizza when I visit England :D

73 de Janne, OH1SDR

1503. Re: [kgksdr] sound card utilitites in files, tools

Yahoo group: kgksdr
Date: 2009-07-17 19:39:20 UTC
From: dan edwards
Topic: 1497 Message: 1503

BOTH !!!! (the ones in 'files, tools')

73, w5xz

--- On Fri, 7/17/09, Duncan Munro <m0kgk@...> wrote:

From: Duncan Munro <m0kgk@duncanamps.com>
Subject: Re: [kgksdr] sound card utilitites in files, tools
To: kgksdr@yahoogroups.com
Date: Friday, July 17, 2009, 5:14 PM

w5xz@att.net wrote:
> duncan,
>
> what do they tell me?
>
> looks like good stuff, just not sure
> what to make of the results.

Hi Dan,

Which program in particular?

73,

Duncan
M0KGK

1504. new happy user

Yahoo group: kgksdr
Date: 2009-07-17 20:46:10 UTC
From: denisf6crp
Topic: 1504 Message: 1504

Hi Duncan and folks,
i am Denis F6CRP and i am a new user of KGKSDR. Congratulations Ducan, the program is really exceptional.

I use it with a homebrew HF receiver, a copy a the old progressive receiver from W7ZOI and K5IRK but with some "novelties" as for example a DDS VFO. The 9 MHz IF before quartz filter is fed to a I/Q receiver (kit from JA7TDO, very simple).

So, as friends before, pizza, beer and more offered here in IN96KE hi !

73 Denis F6CRP

ps: thanks again !

1505. Newbie question

Yahoo group: kgksdr
Date: 2009-08-01 07:24:46 UTC
From: Anastasios
Topic: 1365 Message: 1505

Hi, can that software work with the FlexRadio SDR? Thanks + 73's

1506. DDE. Is it possible?

Yahoo group: kgksdr
Date: 2009-08-08 08:39:15 UTC
From: ur7mr
Topic: 1506 Message: 1506

Hi, Duncan

I'm using receiver (YU1LM) with simple synthesizer (LM7001). If it possible for simplicity, to build in your program DDEClientItem, which will receives data about frequency of adjustment of the synthesizer (from the other program ☐DDEServer) and use this as it needful?

1507. Sound card

Yahoo group: kgksdr
Date: 2009-10-23 19:58:07 UTC
From: neiperalta
Topic: 1507 Message: 1507

Hi
My name is Norbert and this is my 1st question.
Is the Sound blaster Audigy 7.1 SE good for SDR?
Specifications are: 24 bit/96KHz , S/N 100 dB.
Regards

Norbert (ex LU4FCI)

1508. Re: Sound card

Yahoo group: kgksdr
Date: 2009-10-24 09:20:30 UTC
From: g8voip
Topic: 1507 Message: 1508

Hi Norbert,

That sounds like a good card to start off with, certainly the 24 bit sampling is a 'must' really for best performance, likewise the 96kHz capability. The S/N is also quite respectable.

I have used two different SoundBlaster cards, Live 24, and Audigy 2 ZS, both internal PCI versions. Both gave good results, far superior to the motherboard 16 bit / 48kHz soundcard.

The only one thing to be aware of is that on some SoundBlaster cards, the hardware has a one sample delay between the two input channels. For SDR work and to obtain good image rejection it is essential that the I and Q inputs are sampled at the same time.

In most SDR programs, Winrad, Rocky and PSDR (except the 'official' FlexRadio versions) there is the facility to insert a one sample delay in the program set up to correct for this hardware anomaly.

The Live 24 needs this delay, but the Audigy 2ZS did not. I guess it is really one of those things you have to determine by experimenting with your own card, pretty obvious, if you cannot obtain any image rejection at all, then try delaying the right channel by one sample.

73, Bob G8VOI

--- In kgksdr@yahoogroups.com, "neiperalta" <norberto.modanesi@...> wrote:
>
> Hi
> My name is Norbert and this is my 1st question.
> Is the Sound blaster Audigy 7.1 SE good for SDR?
> Specifications are: 24 bit/96KHz , S/N 100 dB.
> Regards
>
> Norbert (ex LU4FCI)
>

1509. Re: [kgksdr] Re: Sound card

Yahoo group: kgksdr
Date: 2009-10-23 17:00:50 UTC
From: Norberto Modanesi
Topic: 1507 Message: 1509

Thanks for your answer.-
Norbert

g8voip escribi?:
> Hi Norbert,
>
> That sounds like a good card to start off with, certainly the 24 bit sampling is a 'must' really for best performance, likewise the 96kHz capability. The S/N is also quite respectable.
>
> I have used two different SoundBlaster cards, Live 24, and Audigy 2 ZS, both internal PCI versions. Both gave good results, far superior to the motherboard 16 bit / 48kHz soundcard.
>
> The only one thing to be aware of is that on some SoundBlaster cards, the hardware has a one sample delay between the two input channels. For SDR work and to obtain good image rejection it is essential that the I and Q inputs are sampled at the same time.
>
> In most SDR programs, Winrad, Rocky and PSDR (except the 'official' FlexRadio versions) there is the facility to insert a one sample delay in the program set up to correct for this hardware anomaly.
>
> The Live 24 needs this delay, but the Audigy 2ZS did not. I guess it is really one of those things you have to determine by experimenting with your own card, pretty obvious, if you cannot obtain any image rejection at all, then try delaying the right channel by one sample.
>
> 73, Bob G8VOI
>
> --- In kgksdr@yahoogroups.com, "neiperalta" <norberto.modanesi@...> wrote:
>> Hi
>> My name is Norbert and this is my 1st question.
>> Is the Sound blaster Audigy 7.1 SE good for SDR?
>> Specifications are: 24 bit/96KHz , S/N 100 dB.
>> Regards
>>
>> Norbert (ex LU4FCI)
>>
>
>
>

1510. Voice keyer in SDR software.

Yahoo group: kgksdr
Date: 2009-10-25 20:22:20 UTC
From: iami78
Topic: 1510 Message: 1510

Who of you guys have a sore throat from repeating the "CQ contest" on CQWW - raise your hands, hi.

Wouldn't it be great to have, say, 10 memories (10 buttons) in KGKSDR for CQs & stuff like that. I haven't seen one in any SDR software. IMHO, you could even record the files with some stand alone recorder software, so one wouldn't have to be added to the SDR software.

Wouldn't be too bad to carry out? Is there any sense in this idea?

73 de Janne OH1SDR

PS. Just worked Japan on CQWW with KGKSDR - love it.

1511. Image rejection

Yahoo group: kgksdr
Date: 2009-10-29 19:05:55 UTC
From: neiperalta
Topic: 703 Message: 1511

Hi everibody:
I can't adjust image rejection using KGKSDR while using PSDR I achive 30dB rejection.-
I like KGKSDR because has less backgound noise.-
SAound card is Sound Blaster Audigy 7.1 SE.
Here are two screenshots of the calibration tab (ampl & phase).-
Could you tell me what's wrong? Hardware is ADTRX1 by YU1LM.-
I'll put the screenshots on the FILES of this group.
Regards.

Norbert

1512. Re: [kgksdr] Image rejection

Yahoo group: kgksdr
Date: 2009-10-29 20:26:22 UTC
From: Duncan Munro
Topic: 703 Message: 1512

neiperalta wrote:
> Hi everibody:
> I can't adjust image rejection using KGKSDR while using PSDR I achive 30dB rejection.-
> I like KGKSDR because has less backgound noise.-
> SAound card is Sound Blaster Audigy 7.1 SE.
> Here are two screenshots of the calibration tab (ampl & phase).-
> Could you tell me what's wrong? Hardware is ADTRX1 by YU1LM.-
> I'll put the screenshots on the FILES of this group.
> Regards.

Hi Norbert, did you try putting the delay on as Bob suggested the other day?

73,

Duncan
M0KGK

1513. Re: [kgksdr] Image rejection

Yahoo group: kgksdr
Date: 2009-10-29 20:27:10 UTC
From: Duncan Munro
Topic: 703 Message: 1513

neiperalta wrote:
> Hi everibody:
> I can't adjust image rejection using KGKSDR while using PSDR I achive 30dB rejection.-
> I like KGKSDR because has less backgound noise.-
> SAound card is Sound Blaster Audigy 7.1 SE.
> Here are two screenshots of the calibration tab (ampl & phase).-
> Could you tell me what's wrong? Hardware is ADTRX1 by YU1LM.-
> I'll put the screenshots on the FILES of this group.

The other thing is Yahoo has probably removed your attached screen
shots. Please post to the files area and we can take a look.

73,

Duncan
M0KGK

1514. Re: [kgksdr] Image rejection

Yahoo group: kgksdr
Date: 2009-10-29 02:54:14 UTC
From: Norberto Modanesi
Topic: 703 Message: 1514

As said before, they are on the files area/ screenshot folder
Norbert

Duncan Munro escribi?:
> neiperalta wrote:
>> Hi everibody:
>> I can't adjust image rejection using KGKSDR while using PSDR I achive 30dB rejection.-
>> I like KGKSDR because has less backgound noise.-
>> SAound card is Sound Blaster Audigy 7.1 SE.
>> Here are two screenshots of the calibration tab (ampl & phase).-
>> Could you tell me what's wrong? Hardware is ADTRX1 by YU1LM.-
>> I'll put the screenshots on the FILES of this group.
>
> The other thing is Yahoo has probably removed your attached screen
> shots. Please post to the files area and we can take a look.
>
> 73,
>
> Duncan
> M0KGK
>
>

1515. Re: [kgksdr] Image rejection

Yahoo group: kgksdr
Date: 2009-10-29 23:41:30 UTC
From: Duncan Munro
Topic: 703 Message: 1515

Norberto Modanesi wrote:
> As said before, they are on the files area/ screenshot folder

OK sorry, just read your posting again. I've had a look at the screen dumps you posted, there are not enough calibration points being picked up to make a valid map.

I can tell you the rules for accepting points into the calibration map.

1. The calibration signal must be 30dB above the noise floor, otherwise it will be rejected.

2. The calibration signal must be 20dB above the image, otherwise it will be rejected.

It would appear that your incoming signals are not meeting one or both of these rules.

Have you got reception signals coming in? Are they showing on the display a healthy amount above the noise signal? Are the IQ signals giving a seperation of at least 20dB to start with? I guess this last one could be checked with a signal generator.

73,

Duncan
M0KGK

1516. Re: Voice keyer in SDR software.

Yahoo group: kgksdr
Date: 2009-11-04 20:44:45 UTC
From: dan
Topic: 1510 Message: 1516

K9DUR has a voice keyer for powerSDR and VAC.

google his callsign, ck out his website. it MIGHT work..

73, w5xz

1517. Re: Voice keyer in SDR software.

Yahoo group: kgksdr
Date: 2009-11-11 08:35:55 UTC
From: iami78
Topic: 1510 Message: 1517

--- In kgksdr@yahoogroups.com, "dan" <w5xz@...> wrote:
>
> K9DUR has a voice keyer for powerSDR and VAC.
>
> google his callsign, ck out his website. it MIGHT work..
>
> 73, w5xz
>

Yeah, tnx. I'm actually already familiar with K9DUR's software.
I meaningfully asked about the idea to integrate the voice keyer to KGKSDR and wanted to see the reactions. Not many didn't give hurrays :)

The way I see it, is that you would have less applications running on the background with the integration and it would make contesting or just normal CQing a lot easier. There's a limit about what do add, but I see this might be quite usefull. Obviously, this is just my opinion.

73 de Janne OH1SDR

1518. Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 07:57:12 UTC
From: m0els
Topic: 1518 Message: 1518

Hi all, Just dnloaded the latest version and have it running with a realtek hd soundcard. The problem I have on rx is that the waveform appears to me two halves, with a "mc donalds M " in the middle. I presume this is the two audio channels L + R.

How does one get rid of this via software or is there another way.
I am using the line in port on the sndcard which receives the audio from a usb/serial port converter from my yaesu ft897d via the cat port.

Many Thanks

John - M0ELS

1519. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 09:43:09 UTC
From: Duncan
Topic: 1518 Message: 1519

--- In kgksdr@yahoogroups.com, "m0els" <m0els@...> wrote:
>
> Hi all, Just dnloaded the latest version and have it running with a realtek hd soundcard. The problem I have on rx is that the waveform appears to me two halves, with a "mc donalds M " in the middle. I presume this is the two audio channels L + R.
>
> How does one get rid of this via software or is there another way.
> I am using the line in port on the sndcard which receives the audio from a usb/serial port converter from my yaesu ft897d via the cat port.
>

Hi John,

It sounds like your input is in mono rather than the I/Q input for which the software is designed, so you might see some odd shapes. Can you post up a screen dump in the files area?

73,

Duncan
M0KGK

1520. Software wish list

Yahoo group: kgksdr
Date: 2009-11-24 09:44:42 UTC
From: m0els
Topic: 1520 Message: 1520

My wish list would be to see a CAT port implementation into the sdr software, sothat the frequency readout corresponds to the particular transceiver used and tracks both directions as with HRD. An additional feature could be added where if one uses a transverter with a hr fig, that the readout shows the transverter freq and not only the IF

I use a demi 23cm transverter which has a 144 mhz if. I would like to see 1296.200 on the software and not 144.200

The software is looking great and I am fiddling away, trying this and that, excepting for this annoying M in the middle of the waveform

73
John - M0ELS

1521. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 09:46:35 UTC
From: m0els
Topic: 1518 Message: 1521

Hi Duncan, will dump a screengrab shortly

Thanks

John

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "m0els" <m0els@> wrote:
> >
> > Hi all, Just dnloaded the latest version and have it running with a realtek hd soundcard. The problem I have on rx is that the waveform appears to me two halves, with a "mc donalds M " in the middle. I presume this is the two audio channels L + R.
> >
> > How does one get rid of this via software or is there another way.
> > I am using the line in port on the sndcard which receives the audio from a usb/serial port converter from my yaesu ft897d via the cat port.
> >
>
> Hi John,
>
> It sounds like your input is in mono rather than the I/Q input for which the software is designed, so you might see some odd shapes. Can you post up a screen dump in the files area?
>
> 73,
>
> Duncan
> M0KGK
>

1522. New file uploaded to kgksdr

Yahoo group: kgksdr
Date: 2009-11-24 09:53:32 UTC
From: kgksdr@yahoogroups.com
Topic: 17 Message: 1522

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the kgksdr
group.

File : /grab1.pdf
Uploaded by : m0els <m0els@...>
Description : M0ELS screengrab

You can access this file at the URL:
http://groups.yahoo.com/group/kgksdr/files/grab1.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

m0els <m0els@...>

1523. Mc Donalds M

Yahoo group: kgksdr
Date: 2009-11-24 10:03:43 UTC
From: m0els
Topic: 1523 Message: 1523

Duncan, I forgot to add that the freq I am looking at, is on the peak of the "M" If I tune into a beacon, then I can see the signal right on top of the "M"
Very strange

John

1524. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 10:05:08 UTC
From: Duncan
Topic: 1518 Message: 1524

--- In kgksdr@yahoogroups.com, "m0els" <m0els@...> wrote:
>
> Hi Duncan, will dump a screengrab shortly

Hi John,

Just had a look at the screen grab. The M in the middle is your audio signal, I suspect that all the stuff outside of the M is just noise. The audio bandwidth from the '897 will only be about 2.5-3.0 kHz, which corresponds to the M being about 5-6 kHz wide.

If you were using a softrock et al, it would have a really wideband output and it's then possible to get a signal 96 or 192 kHz wide on the screen, but with just bandwidth limited audio the display will be fairly narrow.

73,

Duncan
M0KGK

1525. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 10:13:15 UTC
From: m0els
Topic: 1518 Message: 1525

Hi Duncan, Is there any way the software can be made to compensate for this?
What about taking the audio from elsewhere on the 897. I may have to delve into the circuit diagram.
Any ideas.

Thanks

John

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
>
> --- In kgksdr@yahoogroups.com, "m0els" <m0els@> wrote:
> >
> > Hi Duncan, will dump a screengrab shortly
>
> Hi John,
>
> Just had a look at the screen grab. The M in the middle is your audio signal, I suspect that all the stuff outside of the M is just noise. The audio bandwidth from the '897 will only be about 2.5-3.0 kHz, which corresponds to the M being about 5-6 kHz wide.
>
> If you were using a softrock et al, it would have a really wideband output and it's then possible to get a signal 96 or 192 kHz wide on the screen, but with just bandwidth limited audio the display will be fairly narrow.
>
> 73,
>
> Duncan
> M0KGK
>

1526. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 10:28:56 UTC
From: Duncan
Topic: 1518 Message: 1526

--- In kgksdr@yahoogroups.com, "m0els" <m0els@...> wrote:
>
> Hi Duncan, Is there any way the software can be made to compensate for this?
> What about taking the audio from elsewhere on the 897. I may have to delve into the circuit diagram.
> Any ideas.
>

Hi John,

I don't know where you would get wider audio from the 897, but suspect it would involve some butchering and may still be restricted by roofing filters etc.

Again, I'm not sure, so my advice would be to check on a group specialising in this TX where someone might know.

73,

Duncan
M0KGK

1527. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 10:52:29 UTC
From: m0els
Topic: 1518 Message: 1527

Hi, Thanks for the reply. I have asked on the 897d yahoo group and will see what replies I get. Since my main interests are in microwaves, the 144mhz band is my main if that I use. I have heard that softrock now goes up to 144mhz with a converter, but would prefer to use the rig.

Will report back when a solution is found

Thanks

John

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
>
> --- In kgksdr@yahoogroups.com, "m0els" <m0els@> wrote:
> >
> > Hi Duncan, Is there any way the software can be made to compensate for this?
> > What about taking the audio from elsewhere on the 897. I may have to delve into the circuit diagram.
> > Any ideas.
> >
>
> Hi John,
>
> I don't know where you would get wider audio from the 897, but suspect it would involve some butchering and may still be restricted by roofing filters etc.
>
> Again, I'm not sure, so my advice would be to check on a group specialising in this TX where someone might know.
>
> 73,
>
> Duncan
> M0KGK
>

1528. Re: [kgksdr] Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 15:45:35 UTC
From: Alan
Topic: 1518 Message: 1528

```
----- Original Message -----
From: "m0els"
Subject: [kgksdr] Re: Newbie to sdr software

> Hi, Thanks for the reply. I have asked on the 897d yahoo group and will
> see what replies I get. Since my main interests are in microwaves, the
> 144mhz band is my main if that I use. I have heard that softrock now goes
> up to 144mhz with a converter, but would prefer to use the rig.
>

The usual way is to fit a Softrock into the IF. Look on the Softrock group
to see if anyone has done it with your rig.

73 Alan G4ZFQ
```

1529. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-11-24 16:38:43 UTC
From: m0els
Topic: 1518 Message: 1529

Hi Alan, Thanks for that. I have looked at the softrock group and will see what replies I get.

73
John

--- In kgksdr@yahoogroups.com, "Alan" <g4zfq@...> wrote:
>
>
> ----- Original Message -----
> From: "m0els"
> Subject: [kgksdr] Re: Newbie to sdr software
>
>
> > Hi, Thanks for the reply. I have asked on the 897d yahoo group and will
> > see what replies I get. Since my main interests are in microwaves, the
> > 144mhz band is my main if that I use. I have heard that softrock now goes
> > up to 144mhz with a converter, but would prefer to use the rig.
> >
>
> The usual way is to fit a Softrock into the IF. Look on the Softrock group
> to see if anyone has done it with your rig.
>
> 73 Alan G4ZFQ
>

1530. Mac Donalds M

Yahoo group: kgksdr
Date: 2009-11-24 23:35:23 UTC
From: m0els
Topic: 1530 Message: 1530

Hi all, I decided to do some tests after my last posting and found that even with the ft897d switched off, I was still getting the "M" effect. So am I right in thinking that this is a soundcard problem and not the audio from the 897d ?
Any ideas on whats happening

I will post the screengrab under the files section shortly

73
John

1531. Re: [kgksdr] Mac Donalds M

Yahoo group: kgksdr
Date: 2009-11-25 08:27:03 UTC
From: Alan
Topic: 1530 Message: 1531

```
----- Original Message -----
From: "m0els"
Subject: [kgksdr] Mac Donalds M

> Hi all, I decided to do some tests after my last posting and found that
> even with the ft897d switched off, I was still getting the "M" effect. So
> am I right in thinking that this is a soundcard problem and not the audio
> from the 897d ?
> Any ideas on whats happening
>

This has little to do with KGKSDR. Or even SDR. Also very likely nothing to
do with a fault in the soundcard.
I suggest you learn about connecting your rig to soundcards.
http://homepages.wightcable.net/~g4zfq/Si570.htm Section 5 gives some links,
note in/out feedback and ground loops.
The rest of the site gives links to many aspects of SDR.
I suggest you try data mode software to get used to things.
SDR programs will not help until you have an I/Q front end, but don't let
that stop you looking. There's just no point in using them.

73 Alan G4ZFQ
```

1532. Window7 - any issues?

Yahoo group: kgksdr
Date: 2009-12-21 14:59:28 UTC
From: Grover_Cleveland
Topic: 1532 Message: 1532

Coming from XP to Windows7. ASIO does not seem to work version 2.10 beta1. Cannot select in or out audio devices.
KGKSDR V 1.1.0.63

Dick
N3HKN

1533. Re: Window7 - any issues?

Yahoo group: kgksdr
Date: 2009-12-22 17:18:15 UTC
From: Duncan
Topic: 1532 Message: 1533

--- In kgksdr@yahoogroups.com, "Grover_Cleveland" <n3hkn@...> wrote:
>
> Coming from XP to Windows7. ASIO does not seem to work version 2.10 beta1. Cannot select in or out audio devices.
> KGKSDR V 1.1.0.63

Hi Dick,

I haven't tried Windows 7 yet with KGKSDR but will be doing at some stage over the coming week. In the interim, anyone else using it?

73,

Duncan
M0KGK

1534. Re: Window7 - any issues?

Yahoo group: kgksdr
Date: 2009-12-23 14:25:57 UTC
From: Grover_Cleveland
Topic: 1532 Message: 1534

I have been away from the radio for about a year so do not remember all of the nuances. Upgraded to KGKDSR V 64. Latest motherboard audio drivers. And again Windows Home Premium Using motherboard RealTek audio since Turtle Beach drivers no longer work in Windows7.

My issue is that I can get about 3/4 watt from the Softrock Transceiver using Tune in KGKSDR. However using tune (single tone) in WinPSK and DXLab's Warbler I only get about 1/4 watt. The audio in Windows7 has had changes to it so may be a problem. Under XP I had the ability to get full power in either KGKSDR or a PSK program.
Dick N3HKN

1535. Re: Newbie to sdr software

Yahoo group: kgksdr
Date: 2009-12-24 09:07:10 UTC
From: ed_hekman
Topic: 1518 Message: 1535

John,

I don't know if you received the answers to your questions.

The SDR software requires two different signals in the left and right channels. These are usually called I and Q signals indicating that they are 90 degrees out of phase. With these two signals the software is able to distinguish between signals below the center frequency from signals above the center frequency. Without these two distinct signals the displayed spectrum will be symmetric around the center frequency. None of the traditional commercial radios provide I&Q signals that I am aware of except radios specifically designed for SDR operation such as the Flex Radio products, the Softrock kits and a few others.

An alternative that many have done and I plan to do is to build an SDR receiver that takes the IF signal from a commercial radio and downconverts it to audio frequencies in a way that produces the separate I and Q signals.

Does this explanation help?

Ed
WB6YTE

--- In kgksdr@yahoogroups.com, "m0els" <m0els@...> wrote:
>
> Hi Alan, Thanks for that. I have looked at the softrock group and will see what replies I get.
>
> 73
> John
>
> --- In kgksdr@yahoogroups.com, "Alan" <g4zfq@> wrote:
> >
> >
> > ----- Original Message -----
> > From: "m0els"
> > Subject: [kgksdr] Re: Newbie to sdr software
> >
> >
> > > Hi, Thanks for the reply. I have asked on the 897d yahoo group and will
> > > see what replies I get. Since my main interests are in microwaves, the
> > > 144mhz band is my main if that I use. I have heard that softrock now goes
> > > up to 144mhz with a converter, but would prefer to use the rig.
> > >
> >
> > The usual way is to fit a Softrock into the IF. Look on the Softrock group
> > to see if anyone has done it with your rig.
> >

> > 73 Alan G4ZFQ
> >
>

1536. How about FM transmission?

Yahoo group: kgksdr
Date: 2010-01-09 23:50:38 UTC
From: qrper723
Topic: 1536 Message: 1536

Hi Duncan, happy new year!

Well I'm using KGKSDR on VHF AM QSO recently.
It also works great in AM mode.
Good modulation and my friends say "What is SDR?".

Now I'd like to QRV also in FM mode.
FM is now receive only I know.
Do you have a plan to add the FM transmission?
In your future list?

Thanks for your nice project,
ja9mat Hidehiko.

1537. Re: How about FM transmission?

Yahoo group: kgksdr
Date: 2010-01-28 06:03:12 UTC
From: iami78
Topic: 1536 Message: 1537

> Hi Duncan, happy new year!
>
> Well I'm using KGKSDR on VHF AM QSO recently.
> It also works great in AM mode.
> Good modulation and my friends say "What is SDR?".
>
> Now I'd like to QRV also in FM mode.
> FM is now receive only I know.
> Do you have a plan to add the FM transmission?
> In your future list?
>
> Thanks for your nice project,
> ja9mat Hidehiko.

Hi Hidehiko!

FM in KGKSDR would be great! I also use KGKSDR on 2 meters and it works great, but hate to switch to my analog radio when doing FM, hi.

Let's keep our fingers crossed that Duncan will have the energy and will to add the FM to KGKSDR!

73 Janne OH1SDR

1538. Re: How about FM transmission?

Yahoo group: kgksdr
Date: 2010-01-29 10:33:35 UTC
From: qrper723
Topic: 1536 Message: 1538

Hi Janne,

I agree with you...I'm wondering how you could QRV on 2m
with SDR using KGKSDR. Nice job!

Anyway I'm enjoying VHF AM QRV by KGKSDR and everyone will
be very interested in my rigs.

Thanks janne and I'm waiting for the add-on plan from Duncan.
It's no problem.

Thanks 73, ja9mat hidehiko.

PS; Your call sign is very nice!!!

> Let's keep our fingers crossed that Duncan will have the energy and will to add the FM to KGKSDR!

1539. Digital modes on KGK

Yahoo group: kgksdr
Date: 2010-01-31 12:16:00 UTC
From: igor32ua
Topic: 1539 Message: 1539

Hello All!
Please help me with work to rx PSK and other digi modes in KGK
How setup for this in KGK program?

1540. Re: [kgksdr] Digital modes on KGK

Yahoo group: kgksdr
Date: 2010-01-31 12:58:15 UTC
From: john@g8seq.com
Topic: 1540 Message: 1540

I don't think KGKSDR (at least my version won't; thge buttons are greyed out) will demodulate PSK31 on its own. When I did this (receive only) I used a wide USB filter option and fed the audio o/p into the mic socket of the sound card and ran PSK31 DeLuxe to demodulate the PSK31. I tried one of these virtual audio cables but couldn't get it to work on my PC. Another option I've tried is to run PSK31 Deluxe on a laptop and play the audio from the main PC into the mic of the laptop. I actually prefer that as I can use the main PC to look at the internet etc whilst monitoring the PSK31.

de John G8SEQ.

> -------Original Message-------
> From: igor32ua <garik38@...>
> To: kgksdr@yahoogroups.com
> Subject: [kgksdr] Digital modes on KGK
> Sent: Jan 31 '10 12:16
>
> Hello All!
> Please help me with work to rx PSK and other digi modes in KGK
> How setup for this in KGK program?

1541. Re: [kgksdr] Digital modes on KGK

Yahoo group: kgksdr
Date: 2010-01-31 14:16:10 UTC
From: Alan
Topic: 1539 Message: 1541

```
----- Original Message -----
From: "igor32ua"
Subject: [kgksdr] Digital modes on KGK

> Hello All!
> Please help me with work to rx PSK and other digi modes in KGK
> How setup for this in KGK program?
>
>

A lot of info here http://yt1dl.veze.net/sdr.html
Also look at Multi PSK, a link on that page, it will do lots of modes with
SDR.

73 Alan G4ZFQ
```

1542. Re: Digital modes on KGK

Yahoo group: kgksdr
Date: 2010-01-31 17:31:29 UTC
From: ed_hekman
Topic: 1540 Message: 1542

KGKSDR has a very nice and easy to understand user interface but the setup for digital mode operation requires separate digital mode software and multiple sound cards or VAC. Setting this up can be quite a challenge. I was unable to get VAC to work also so I gave up. I am hoping that SDR software developers will implement an internal interface to connect to digital mode programs such as what MultiPSK has.

Ed
WB6YTE

--- In kgksdr@yahoogroups.com, <john@...> wrote:
>
> I don't think KGKSDR (at least my version won't; thge buttons are greyed out) will demodulate PSK31 on its own. When I did this (receive only) I used a wide USB filter option and fed the audio o/p into the mic socket of the sound card and ran PSK31 DeLuxe to demodulate the PSK31. I tried one of these virtual audio cables but couldn't get it to work on my PC. Another option I've tried is to run PSK31 Deluxe on a laptop and play the audio from the main PC into the mic of the laptop. I actually prefer that as I can use the main PC to look at the internet etc whilst monitoring the PSK31.
>
> de John G8SEQ.
>
> > -------Original Message-------
> > From: igor32ua <garik38@...>
> > To: kgksdr@yahoogroups.com
> > Subject: [kgksdr] Digital modes on KGK
> > Sent: Jan 31 '10 12:16
> >
> > Hello All!
> > Please help me with work to rx PSK and other digi modes in KGK
> > How setup for this in KGK program?
>

1543. can't switch to tx

Yahoo group: kgksdr
Date: 2010-02-05 20:48:08 UTC
From: Lacy
Topic: 1543 Message: 1543

```
Hello..
I can't switch to tx ..I get an error message: RANGE ERROR.
Can help me?
73 de yo6cfb,Lacy
```

1544. Re: can't switch to tx

Yahoo group: kgksdr
Date: 2010-02-06 05:01:55 UTC
From: Duncan
Topic: 1543 Message: 1544

--- In kgksdr@yahoogroups.com, "Lacy" <yo6cfb@...> wrote:
>
> Hello..
> I can't switch to tx ..I get an error message: RANGE ERROR.
> Can help me?
> 73 de yo6cfb,Lacy

Hi Lacy,

It sounds like there is a calibration map problem. My advice is to delete the calibration map and re-calibrate the RX and TX.

There is advice on how to delete the calibration map under Help -> Troubleshooting -> Troubleshoot RX Problems -> Overflow error.

If this doesn't solve the issue, come back as you may have a more serious problem.

73,

Duncan
M0KGK

1545. Calibration on Creative Live24 external

Yahoo group: kgksdr
Date: 2010-03-04 17:28:10 UTC
From: om0aao
Topic: 1545 Message: 1545

Hi,

I am using Creative USB Sound Blaster Live! 24-bit External Sound Card. Probably it is wrong card for SDR?

I set sampling delay for this card in KGKSDR (which is recommended in the help file). When set delay right, I can reach 60-75dB rejection of spurs above the center freq. Below it is terrible.

And again when set delay left, there is very good rejection below the center frequency and terrible above. Without delaying in the sampling are all results bad.

So I can use only a half from the sample frequency of this sound card. Or I am doing something wrong?

73'Viliam, OM0AAO / OM0A

http://www.sp4xyd.republika.pl/diode.gif (wrong D2 and D3 polarity in scheme)
Creative USB Sound Blaster Live! 24-bit External
Toshiba A300 laptop
M0KGK 1.1.0.64

1546. Re: [kgksdr] Calibration on Creative Live24 external

Yahoo group: kgksdr
Date: 2010-03-04 18:38:36 UTC
From: Alan
Topic: 1545 Message: 1546

```
----- Original Message -----
From: "om0aao"
Subject: [kgksdr] Calibration on Creative Live24 external

> Hi,
>
> I am using Creative USB Sound Blaster Live! 24-bit External Sound Card.
> Probably it is wrong card for SDR?
>
> I set sampling delay for this card in KGKSDR (which is recommended in the
> help file). When set delay right, I can reach 60-75dB rejection of spurs
> above the center freq. Below it is terrible.
>
> And again when set delay left, there is very good rejection below the
> center frequency and terrible above. Without delaying in the sampling are
> all results bad.
>
> So I can use only a half from the sample frequency of this sound card. Or
> I am doing something wrong?
>

I do not know the answer but I, and many others have used this USB device.
I have never noticed the effect you describe. I am unaware of anyone else
reporting it.

I am not familiar with your receiver, I wonder if it is possible for a fault
to cause this?

73 Alan G4ZGQ
```

1547. Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-16 08:11:53 UTC
From: iami78
Topic: 1547 Message: 1547

I consider myself as an advanced KGKSDR user, but now I don't have any tricks left:

I have serious cracks in the audio using either ASIO4ALL (2.9) or ASIO (E-MU USB 0202) on what ever sampling rate I tried (44.1 48 and 96 kHz). What is strange, the onboard realtek seems to work just fine.

Here's some details:

* This particular laptop has had a working setup of KGKSDR and the same sound card, I just reinstalled the XP (same drivers were used)
* Tried to increase buffers in ASIO4ALL, no change
* Tried to increase ASIO buffers but when I press "ok", the KGKSDR locks
* Made sure that no other program was using the sound card
* Tried the onboard sound card which I'm not intending to use, but it seemed to work (just listening the noise), no cracks
* The E-MU 0202 USB works fine at 96 kHz using mediaplayer etc.
* The exactly same setup (KGKSDR + E-MU 0202 USB) works in my desktop computer (has done so for several years).
* The only think I can name that has changed, is the ASIO4ALL -version
-> Duncan is ASIO4ALL still in play even though I'm using ASIO directly?

What a heck it is fighting against me :)

Any ideas would be appreciated!

73 de Janne OH1SDR

1548. Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-16 20:57:33 UTC
From: Duncan
Topic: 1547 Message: 1548

--- In kgksdr@yahoogroups.com, "iami78" <iami78@...> wrote:
> * The only think I can name that has changed, is the ASIO4ALL -version
> -> Duncan is ASIO4ALL still in play even though I'm using ASIO directly?

Hi Janne,

I'm not sure if ASIO4ALL is still in play, however I use ASIO4ALL coexisting with M-Audio ASIO drivers and it's all OK. It may be the version in use, sometimes they go up a version and it has caused problems before.

Also, what is your CPU load looking like, is it high?

73,

Duncan
M0KGK

1550. Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-17 08:05:21 UTC
From: iami78
Topic: 1547 Message: 1550

Duncan,

CPU load is within reasonable range, between 10-50%

I switched back to the older version of ASIO4ALL (I prefer to use KGKSDR with ASIO4ALL anyway) and one of the problems got fixed: With the new version, everytime I started KGKSDR, I had to activate the soundcard on the ASIO4ALL setup, go to the KGKSDR options and click apply (otherwise the sound card didn't appear in the input/output field). The same problem don't exist with the previous version.
Should this be reported?

Anyways, I adjusted the buffers in ASIO4ALL to max 2048 (which IMO is quite a lot) and it seemed to be a part of the solution. Less crackling, just few pops here and there.

I finally found something that is quite unusual, at least to me: When I smallered the KGKSDR window (I usually use only half of the vertical size) the audio got even better. Just few pops time to time.

This brought me thinking that this might lead to display driver.
I went to display settings and tried several things, but I got the best results by decreasing harware acceleration to minimum - no pops and cracklings at all.

Any ideas why this happends?

73 de Janne OH1SDR

> Hi Janne,
>
> I'm not sure if ASIO4ALL is still in play, however I use ASIO4ALL coexisting with M-Audio ASIO drivers and it's all OK. It may be the version in use, sometimes they go up a version and it has caused problems before.
>
> Also, what is your CPU load looking like, is it high?
>
> 73,
>
> Duncan
> M0KGK
>

1551. Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-18 15:25:56 UTC
From: Duncan
Topic: 1547 Message: 1551

--- In kgksdr@yahoogroups.com, "iami78" <iami78@...> wrote:

> I switched back to the older version of ASIO4ALL (I prefer to use KGKSDR with ASIO4ALL anyway) and one of the problems got fixed: With the new version, everytime I started KGKSDR, I had to activate the soundcard on the ASIO4ALL setup, go to the KGKSDR options and click apply (otherwise the sound card didn't appear in the input/output field). The same problem don't exist with the previous version.
> Should this be reported?

Yes, I would let them know and see if they have had any reports from other users over the later version.

> This brought me thinking that this might lead to display driver.
> I went to display settings and tried several things, but I got the best results by decreasing harware acceleration to minimum - no pops and cracklings at all.
>
> Any ideas why this happends?

This is quite bizarre, I could understand using more hardware acceleration to make things better, but it getting worse I don't understand. The display of the spectrum is quite graphic intensive, but seems to work OK on cheap hardware without problems. I'm really at a loss for suggestions with this.

73,

Duncan
M0KGK

1552. Re: [kgksdr] Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-18 16:24:20 UTC
From: John Randall
Topic: 1547 Message: 1552

One should also check the sleep functions of windoze under the start/control panel/ system/ . Sometimes it goes into sleep mode and one should always untick the automatic sleepmode boxes.

73
John

From: Duncan <m0kgk@...>
To: kgksdr@yahoogroups.com
Sent: Thu, 18 March, 2010 15:25:56
Subject: [kgksdr] Re: Cracks and pops in the audio.

--- In kgksdr@yahoogroups. com, "iami78" <iami78@...> wrote:

> I switched back to the older version of ASIO4ALL (I prefer to use KGKSDR with ASIO4ALL anyway) and one of the problems got fixed: With the new version, everytime I started KGKSDR, I had to activate the soundcard on the ASIO4ALL setup, go to the KGKSDR options and click apply (otherwise the sound card didn't appear in the input/output field). The same problem don't exist with the previous version.
> Should this be reported?

Yes, I would let them know and see if they have had any reports from other users over the later version.

> This brought me thinking that this might lead to display driver.
> I went to display settings and tried several things, but I got the best results by decreasing harware acceleration to minimum - no pops and cracklings at all.
>
> Any ideas why this happends?

This is quite bizarre, I could understand using more hardware acceleration to make things better, but it getting worse I don't understand. The display of the spectrum is quite graphic intensive, but seems to work OK on cheap hardware without problems. I'm really at a loss for suggestions with this.

73,

Duncan
M0KGK

1553. Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-19 07:18:00 UTC
From: iami78
Topic: 1547 Message: 1553

>> Should this be reported?
>>
> Yes, I would let them know and see if they have had any reports from other users over the later version.

>> This brought me thinking that this might lead to display driver.
>> I went to display settings and tried several things, but I got the best results by decreasing harware acceleration to minimum - no pops and cracklings at all.
>>
>> Any ideas why this happends?
>
> This is quite bizarre, I could understand using more hardware acceleration to make things better, but it getting worse I don't understand. The display of the spectrum is quite graphic intensive, but seems to work OK on cheap hardware without problems. I'm really at a loss for suggestions with this.
>
> 73,
>
> Duncan
> M0KGK

There's one check to do actually: I haven't tried to set the hardware acceleration ON after installing the previous version of ASIO4ALL. Yeah, this sounds bizzare too, but in this case it's better line out every possible cause.

I'll report to the group if I figure out either it was the new version of ASIO4ALL or the display hardware acceleration (then I don't really know what is the actual 'cause). Anyway, now the systems works flawlessly.

73 de Janne OH1SDR

1554. Re: Cracks and pops in the audio.

Yahoo group: kgksdr
Date: 2010-03-19 07:19:48 UTC
From: iami78
Topic: 1547 Message: 1554

--- In kgksdr@yahoogroups.com, John Randall <m0els@...> wrote:
>
> One should also check the sleep functions of windoze under the start/control panel/ system/ . SometimesÂ it goes into sleep mode and one should always untick the automatic sleepmode boxes.
>
> 73
> John
>

Thanks John for the advice. This is one of the first things I do with SDR computers after installing the OS.

73 de Janne OH1SDR

1555. Testing a new product - SDR receiver

Yahoo group: kgksdr
Date: 2010-05-17 14:15:32 UTC
From: Chris
Topic: 1555 Message: 1555

I'm testing a new product that we hope to release next week.

It's a SDR receiver that will initially be available in two versions, one 40m and 30m and the other 30m only.

I'm testing the 30m only version at the moment listening on 10.1497 MHz with a very narrow bandwidth (250 Hz) driving APRS Messenger at G4HYG-63. It means I can now run the FT-747 receiver to receive 300 bd AX.25 APRS and use the SDR receiver for APRS over PSK-63 without the receiver AGC being hit by HF APRS, PACTOR, RTTY and all the other stuff on 30m.

A bit more on the receiver...it has a choice of two internal crystal oscillators or an external VFO, it's got good RF filtering (high and low pass filters similar to our VHF/UHF filters) before the front end and it's optimised for use with any stereo input sound card so you won't need to buy an expensive sound card to try it.

We are aiming at a price under £50 ($75) for the receiver fully assembled, aligned and tested.

73,

Chris, G4HYG

1556. Re: Testing a new product - SDR receiver

Yahoo group: kgksdr
Date: 2010-05-17 14:20:14 UTC
From: Chris
Topic: 1555 Message: 1556

Apologies...That was sent to this group in error. I thought I'd sent it to the Cross Country Wireless group. Oops!

73,

Chris, G4HYG

1557. Re: Testing a new product - SDR receiver

Yahoo group: kgksdr
Date: 2010-05-17 14:42:35 UTC
From: Duncan
Topic: 1555 Message: 1557

--- In kgksdr@yahoogroups.com, "Chris" <chrism@...> wrote:
>
> Apologies...That was sent to this group in error. I thought I'd sent it to the Cross Country Wireless group. Oops!
>

Hi Chris, no problem, please leave the post on here. I'm very much anti-advertising, but this is something which I'm sure will interest the members of the group.

73,

Duncan
M0KGK

1558. SDR - software

Yahoo group: kgksdr
Date: 2010-05-31 19:22:31 UTC
From: al2ok
Topic: 1558 Message: 1558

Does the software from Duncan,M0KGK work on all the available receivers from people like KB9YIG , such as the 1.8 - 30 Mhz SDR receiver ?
I mainly interested in trying SDR with the general coverage receiver.

Al

1559. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-05-31 20:41:32 UTC
From: Duncan
Topic: 1558 Message: 1559

Hi Al,

It will take a straight audio input and can decode this no problem, it can't interface with VFO or VXO so cannot control the frequency of a receiver directly.

73,
Duncan
M0KGK

--- In kgksdr@yahoogroups.com, "al2ok" <al2@...> wrote:
>
> Does the software from Duncan,M0KGK work on all the available receivers from people like KB9YIG , such as the 1.8 - 30 Mhz SDR receiver ?
> I mainly interested in trying SDR with the general coverage receiver.
>
> Al
>

1560. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-06-01 06:24:57 UTC
From: g8voip
Topic: 1558 Message: 1560

Hi Al,

I assume you are talking about Tony's v9.0 RX which has now been discontinued, but replaced by the recently released SoftRock Ensemble HF RX which combines the original v9.0 RX design along with the switched BPF module and USB to I2C control on a single PCB complete with all board mounted interface connectors and gives around 875kHz to 30MHz continuous coverage.

To use Tony's board, frequency control using the USB interface is essential as the electronic band pass filtering selection is automatically controlled from the AVR processor chip on the board dependent on the frequency you are tuned to.

You could use an external program in conjunction with Duncan's to 'tune' the receiver such as Fred PE0FKO's 'CFGSR' firmware configuration one, but really it is far more convenient to operate the newer SoftRock designs using a fully integrated program such as Rocky, PowerSDR or Winrad.

Duncan's program is much better suited to 'fixed' centre frequency designs and transceive operation.

73, Bob G8VOI

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> Hi Al,
>
> It will take a straight audio input and can decode this no problem, it can't interface with VFO or VXO so cannot control the frequency of a receiver directly.
>
> 73,
> Duncan
> M0KGK
>
> --- In kgksdr@yahoogroups.com, "al2ok" <al2@> wrote:
> >
> > Does the software from Duncan,M0KGK work on all the available receivers from people like KB9YIG , such as the 1.8 - 30 Mhz SDR receiver ?
> > I mainly interested in trying SDR with the general coverage receiver.
> >
> > Al
> >
>

1561. Re: Window7 - any issues?

Yahoo group: kgksdr
Date: 2010-06-02 01:38:36 UTC
From: Guenther
Topic: 1532 Message: 1561

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Grover_Cleveland" <n3hkn@> wrote:
> >
> > Coming from XP to Windows7. ASIO does not seem to work version 2.10 beta1. Cannot select in or out audio devices.
> > KGKSDR V 1.1.0.63
>
> Hi Dick,
>
> I haven't tried Windows 7 yet with KGKSDR but will be doing at some stage over the coming week. In the interim, anyone else using it?
>
> 73,
>
> Duncan
> M0KGK
>

Hi Duncan,

using Window 7 Pro, KGKSDR Version 1.1.0.64 does not display any sound card selection on the OPTION-Transceiver setup panel. In other
words I am unable to connect to any sound card in my PC.
73
Guenther
VE2BHH

1562. Re: Window7 - any issues?

Yahoo group: kgksdr
Date: 2010-06-02 09:48:24 UTC
From: Duncan
Topic: 1532 Message: 1562

--- In kgksdr@yahoogroups.com, "Guenther" <gbauer@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "Grover_Cleveland" <n3hkn@> wrote:
> > >
> > > Coming from XP to Windows7. ASIO does not seem to work version 2.10 beta1. Cannot select in or out audio devices.
> > > KGKSDR V 1.1.0.63
> >
> > Hi Dick,
> >
> > I haven't tried Windows 7 yet with KGKSDR but will be doing at some stage over the coming week. In the interim, anyone else using it?
> >
>
> Hi Duncan,
>
> using Window 7 Pro, KGKSDR Version 1.1.0.64 does not display any sound card selection on the OPTION-Transceiver setup panel. In other
> words I am unable to connect to any sound card in my PC.
> 73
> Guenther
> VE2BHH

Hi Guenther,

Which version of ASIO4ALL are you using?

73,

Duncan
M0KGK

1563. Re: Window7 - any issues?

Yahoo group: kgksdr
Date: 2010-06-02 13:03:39 UTC
From: Guenther
Topic: 1532 Message: 1563

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "Guenther" <gbauer@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@> wrote:
> > >
> > > --- In kgksdr@yahoogroups.com, "Grover_Cleveland" <n3hkn@> wrote:
> > > >
> > > > Coming from XP to Windows7. ASIO does not seem to work version 2.10 beta1. Cannot select in or out audio devices.
> > > > KGKSDR V 1.1.0.63
> > >
> > > Hi Dick,
> > >
> > > I haven't tried Windows 7 yet with KGKSDR but will be doing at some stage over the coming week. In the interim, anyone else using it?
> > >
> >
> > Hi Duncan,
> >
> > using Window 7 Pro, KGKSDR Version 1.1.0.64 does not display any sound card selection on the OPTION-Transceiver setup panel. In other
> > words I am unable to connect to any sound card in my PC.
> > 73
> > Guenther
> > VE2BHH
>
> Hi Guenther,
>
> Which version of ASIO4ALL are you using?
>
> 73,
>
> Duncan
> M0KGK
>
Hello Duncan,
After installing ASIO4ALL_V2_10_BETA the problem is solved.
Thanks
Guenther VE2BHH

1564. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-06-21 19:50:35 UTC
From: ed_hekman
Topic: 1558 Message: 1564

Duncan,

I have been playing with a Softrock V6.3 xcvr, a V9.0 receiver and now the MoBo 4.3 add-on to the V6.3. I have always liked the simplicity of the KGKSDR UI and the breadth of funtionality but my interest is in digital mode operation. Others have had some success integrating PowerSDR and digital mode programs with VAC and VCOM. I have been using MultiPSK because it is the only package that has digital mode operation integrated with an SDR front-end in one program. Unfortunately the MoBo 4.3 does not have a hardware input for the PTT - only a CAT command over the USB I/F, so with MultiPSK the PTT must be keyed manually with other software.

This weekend I stumbled across the instructions for integrating KGKSDR with MultiPSK using loop.dll. I was impressed with the ease of setting it up (WinXP, Atom D510 cpu) and how well it worked. After copying loop.dll to the appropriate location, the only configuration required was the selection of SDR via loop.dll in MultiPSK. It was also nice that the TX mode on KGKSDR could be keyed directly from MultiPSK.

What would it take to add the capability to key PTT through a USB port? Would it be feasible to add the capability to drive an external, user provided program to key the PTT and possibly to read/write the frequency from/to the hardware?

Unfortunately the experience with setting it up on two other computers (one WinXP home and one Win Vista) varied from no success (Vista) to short-term success (WinXP) then divide by zero error followed by the BSOD.

In my opinion, KGKSDR provides the cleanest UI with all the essential functionality that would work very well as the SDR front end for digital mode operation. I hope that you will continue the support and development of this package with the goal of providing a well-integrated solution for digital mode operation.

Thanks,
Ed
WB6YTE

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> Hi Al,
>
> It will take a straight audio input and can decode this no problem, it can't interface with VFO or VXO so cannot control the frequency of a receiver directly.
>
> 73,
> Duncan
> M0KGK
>
> --- In kgksdr@yahoogroups.com, "al2ok" <al2@> wrote:

> >
> > Does the software from Duncan,M0KGK work on all the available receivers from people like KB9YIG , such as the 1.8 - 30 Mhz SDR receiver ?
> > I mainly interested in trying SDR with the general coverage receiver.
> >
> > Al
> >
>

1565. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-06-21 20:13:26 UTC
From: Duncan
Topic: 1558 Message: 1565

--- In kgksdr@yahoogroups.com, "ed_hekman" <wb6yte@...> wrote:
> ...
> In my opinion, KGKSDR provides the cleanest UI with all the essential functionality that would work very well as the SDR front end for digital mode operation. I hope that you will continue the support and development of this package with the goal of providing a well-integrated solution for digital mode operation.
>

Hi Ed, thanks for the comments. It is my intention to continue development and ext frequency control is quite high on the list. My problem right now is that I have no testing facilities which hampers the development. It's a situation that has dragged on longer than I hoped but will hopefully be sorted sooner rather than later.

My plan is to have an "open dll" model for frequency control which will allow other developers to write plugins for KGKSDR to suit their hardware, something which will speed this whole process up.

73,

Duncan
M0KGK

1566. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-06-22 07:13:50 UTC
From: ed_hekman
Topic: 1558 Message: 1566

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
>
> --- In kgksdr@yahoogroups.com, "ed_hekman" <wb6yte@> wrote:
> > ...
> > In my opinion, KGKSDR provides the cleanest UI with all the essential functionality that would work very well as the SDR front end for digital mode operation. I hope that you will continue the support and development of this package with the goal of providing a well-integrated solution for digital mode operation.
> >
>
> Hi Ed, thanks for the comments. It is my intention to continue development and ext frequency control is quite high on the list. My problem right now is that I have no testing facilities which hampers the development. It's a situation that has dragged on longer than I hoped but will hopefully be sorted sooner rather than later.
>
> My plan is to have an "open dll" model for frequency control which will allow other developers to write plugins for KGKSDR to suit their hardware, something which will speed this whole process up.
>
> 73,
>
> Duncan
> M0KGK

Duncan,

I do some software development for testing and some software testing so I would be happy to help with this effort as much as possible with my limited time.

Is there published documentation available for the program, loop.dll?

Ed
WB6YTE

1567. Re: SDR - software

Yahoo group: kgksdr
Date: 2010-06-22 11:26:39 UTC
From: Duncan
Topic: 1558 Message: 1567

--- In kgksdr@yahoogroups.com, "ed_hekman" <wb6yte@...> wrote:

> Is there published documentation available for the program, loop.dll?

Hi Ed,

The loop.dll was sourced by Cesco HB9TLK who may be able to help. I've also got some documentation on the interface to the DLL which I'll have a look for.

73,

Duncan
M0KGK

1568. Setting the local oscillator

Yahoo group: kgksdr
Date: 2010-07-01 18:29:34 UTC
From: ve3pcd
Topic: 1568 Message: 1568

Hi Folks,

I am new to SDR radio / software, can someone tell to how to set the the local oscillator freq. in the M0KGK SDR ver. 1.1 program?

73,
Peter

1569. Re: [kgksdr] Setting the local oscillator

Yahoo group: kgksdr
Date: 2010-07-02 03:59:18 UTC
From: john@g8seq.com
Topic: 1569 Message: 1569

Hi Peter,
On the task bar at the top left mouse click on "Options", click on Receiver. In the Receiver options window, click on "Frequencies" on the bottom row tabs, then right mouse clich to reveal a menu and click on "Add".
This produces a menu called "Insert Frequency". Put whatever you like in the space provided and click OK.
A new frequency will appear in the list. Highlight the one you want (ie your new one) and click on "Apply" (Bottom RH corner). Then click OK and the window closes and you have a new LO in the main display.

de John G8SEQ

> -------Original Message-------
> From: ve3pcd <ve3pcd@...>
> To: kgksdr@yahoogroups.com
> Subject: [kgksdr] Setting the local oscillator
> Sent: Jul 01 '10 19:29
>
> Hi Folks,
>
> I am new to SDR radio / software, can someone tell to how to set the the
> local oscillator freq. in the M0KGK SDR ver. 1.1 program?
>
> 73,
> Peter
>
>
>

1570. Re: Setting the local oscillator

Yahoo group: kgksdr
Date: 2010-07-02 11:51:51 UTC
From: ve3pcd
Topic: 1569 Message: 1570

Hi John,

Thanks you, much Appreciated.

73, de Peter

--- In kgksdr@yahoogroups.com, <john@...> wrote:
>
> Hi Peter,
> On the task bar at the top left mouse click on "Options", click on Receiver. In the Receiver options window, click on "Frequencies" on the bottom row tabs, then right mouse clich to reveal a menu and click on "Add".
> This produces a menu called "Insert Frequency". Put whatever you like in the space provided and click OK.
> A new frequency will appear in the list. Highlight the one you want (ie your new one) and click on "Apply" (Bottom RH corner). Then click OK and the window closes and you have a new LO in the main display.
>
> de John G8SEQ
>
>
> > -------Original Message-------
> > From: ve3pcd <ve3pcd@...>
> > To: kgksdr@yahoogroups.com
> > Subject: [kgksdr] Setting the local oscillator
> > Sent: Jul 01 '10 19:29
> >
> > Hi Folks,
> >
> > I am new to SDR radio / software, can someone tell to how to set the the
> > local oscillator freq. in the M0KGK SDR ver. 1.1 program?
> >
> > 73,
> > Peter
> >
> >
> >
>

1571. Optimal PC for SDR

Yahoo group: kgksdr
Date: 2010-07-30 04:53:46 UTC
From: OM0AAO Viliam
Topic: 1571 Message: 1571

Hello,

my current PC SDR setup:

Toshiba L-300 notebook
Intel Dual-Core 1,73GHz
1GB RAM
Intel GMA
Sound Blaster Live 24! external USB
Realtek HD Audio

Beacause I would like to run SO2R setup with logging software, DX cluster etc., I am looking for better PC. What's the most important parameters of PC for SDR?

Should I look for quad-core or fastest single core proc? More RAM? Built-in soundcard? Graphic card?

73'Viliam, OM0AAO / OM0A
administrator www.cq.sk

1572. New User Needs Guidance.

Yahoo group: kgksdr
Date: 2010-08-03 14:54:11 UTC
From: rich3x
Topic: 1572 Message: 1572

Hello all:

New to sdr and need to know which xcvr to order and where a 5 or 10 watt PA might be obtained to work with the xcvr.

Thanks very much for your help.
de Rich/N2JR

1573. Re: New User Needs Guidance.

Yahoo group: kgksdr
Date: 2010-08-10 14:12:45 UTC
From: g8voip
Topic: 1572 Message: 1573

Hi Rich,

I guess the answer could be 'how long is a piece of string'!

I think when starting out as a newcomer to SDR, it would be all too easy to spend large amounts of cash and perhaps make some very costly mistakes.

Really depends if you want to go down the homebrew approach, or purchase a 'black box'.

If you are willing and able to put together a small kit, I would recommend getting one of Tony Parks KB9YIG LiteII, single band fixed LO receiver kits. For just $20, they offer a really good performing taster of what SDR is all about. Most people soon get the bug and want to take it to the next level with one of the all band receivers of transceiver kits. The LiteII kit is also a good sampler of the level of difficulty. If you can put that together and get it going, then the larger kits are really just more of the same.

As important, the simple kit allows you to run all of the available SDR software and get a feel for what you like or dislike.

If you go straight for an expensive 'black box' you might be stuck with a very limited range software options.

I think always better to start off walking!

The Yahoo SoftRock40 forum is a good source of a wide range of SDR information, and the 'home' of everything to do with Tony's SoftRock kits.

Beware SDR is addictive!

73, Bob G8VOI

--- In kgksdr@yahoogroups.com, "rich3x" <rich3x@...> wrote:
>
> Hello all:
>
> New to sdr and need to know which xcvr to order and where a 5 or 10 watt PA might be obtained to work with the xcvr.
>
> Thanks very much for your help.
> de Rich/N2JR
>

1574. Behringer FCA202

Yahoo group: kgksdr
Date: 2010-08-15 09:59:31 UTC
From: g3vfp
Topic: 1574 Message: 1574

Hi

I am using a Behringer FCA202 FireWire interface with my very simple softrock liteII receiver. It works absolutely fine using Winrad or PowerSDR software but KGKSDR doesn't seem to accept it.

The unit samples at 96Khz using an asio driver running within an XP platform.

The message I receive when attempting to start the rx is "Format not supported while opening soundcard for output".

Any ideas are welcome.

Cheers

Dave

1575. Re: Behringer FCA202

Yahoo group: kgksdr
Date: 2010-08-20 14:37:48 UTC
From: g3vfp
Topic: 1574 Message: 1575

Well it looks like there are groups, and groups, and I am replying to myself.

Thank god all posts in the groups I run have responses!..

Bye guys enjoy this softwares support what little there is of it.

If you want to call me names you will have to do it direct as I'm leaving after I post this mail :-).

Dave G3VFP QTHR

--- In kgksdr@yahoogroups.com, "g3vfp" <g3vfp@...> wrote:
>
> Hi
>
> I am using a Behringer FCA202 FireWire interface with my very simple softrock liteII receiver. It works absolutely fine using Winrad or PowerSDR software but KGKSDR doesn't seem to accept it.
>
> The unit samples at 96Khz using an asio driver running within an XP platform.
>
> The message I receive when attempting to start the rx is "Format not supported while opening soundcard for output".
>
> Any ideas are welcome.
>
> Cheers
>
> Dave
>

1577. Re: [kgksdr] Re: Behringer FCA202

Yahoo group: kgksdr
Date: 2010-08-21 17:49:06 UTC
From: Janne Pulkkinen
Topic: 1574 Message: 1577

Amen that Bob!

73 de Janne OH1SDR

--- On Fri, 8/20/10, g8voip <g8voi.reeves59@...> wrote:

From: g8voip <g8voi.reeves59@...>
Subject: [kgksdr] Re: Behringer FCA202
To: kgksdr@yahoogroups.com
Date: Friday, August 20, 2010, 1:15 PM

Hi Dave,

It's amazing how childish some people can be!

Perhaps the thought may not have crossed your mind that no one else is using that particular sound card for SDR use, hence the lack of replies.

It certainly is not a popular card or one that I have come across anyone else using in my 4 - 5 years of playing with SDR, perhaps there is a good reason for that.

Then again, some people want everything doing now and expect instant answers.

People help out if and when they can, sadly however you do get others who do nothing but moan. Fortunately, the groups are no worse off without them.

The world carries on regardless, only one person looses out having such ungrateful attitude, think about it, then again you will not be reading this.

73, Bob G8VOI

--- In kgksdr@yahoogroups.com, "g3vfp" <g3vfp@...> wrote:

>

> Well it looks like there are groups, and groups, and I am replying to myself.

>

> Thank god all posts in the groups I run have responses!..

>

> Bye guys enjoy this softwares support what little there is of it.

>

> If you want to call me names you will have to do it direct as I'm leaving after I post this mail :-).

>

>

> Dave G3VFP QTHR

>

>

>

> --- In kgksdr@yahoogroups.com, "g3vfp" <g3vfp@> wrote:

> >

> > Hi

> >

> > I am using a Behringer FCA202 FireWire interface with my very simple softrock liteII receiver. It works absolutely fine using Winrad or PowerSDR software but KGKSDR doesn't seem to accept it.

> >

> > The unit samples at 96Khz using an asio driver running within an XP platform.

> >

> > The message I receive when attempting to start the rx is "Format not supported while opening soundcard for output".

> >

> > Any ideas are welcome.

> >

> > Cheers

> >

> > Dave

> >

>

1578. Re: [kgksdr] Re: Behringer FCA202

Yahoo group: kgksdr
Date: 2010-08-21 19:45:13 UTC
From: Sid Boyce
Topic: 1574 Message: 1578

Bob,
You haven't seen anything yet, you should see the comments on Linux from the "six munse ago I cunnt spell computers, now I are a computer xpert" types.
73 ... Sid.

On 20/08/10 18:15, g8voip wrote:
>
>
> Hi Dave,
>
> It's amazing how childish some people can be!
>
> Perhaps the thought may not have crossed your mind that no one else is
> using that particular sound card for SDR use, hence the lack of replies.
>
> It certainly is not a popular card or one that I have come across anyone
> else using in my 4 - 5 years of playing with SDR, perhaps there is a
> good reason for that.
>
> Then again, some people want everything doing now and expect instant
> answers.
>
> People help out if and when they can, sadly however you do get others
> who do nothing but moan. Fortunately, the groups are no worse off
> without them.
>
> The world carries on regardless, only one person looses out having such
> ungrateful attitude, think about it, then again you will not be reading
> this.
>
> 73, Bob G8VOI
>
> --- In kgksdr@yahoogroups.com <mailto:kgksdr%40yahoogroups.com>, "g3vfp"
> <g3vfp@...> wrote:
> >
> > Well it looks like there are groups, and groups, and I am replying to
> myself.
> >
> > Thank god all posts in the groups I run have responses!..
> >
> > Bye guys enjoy this softwares support what little there is of it.
> >
> > If you want to call me names you will have to do it direct as I'm
> leaving after I post this mail :-).

> >
> >
> > Dave G3VFP QTHR
> >
> >
> >
> > --- In kgksdr@yahoogroups.com <mailto:kgksdr%40yahoogroups.com>,
> "g3vfp" <g3vfp@> wrote:
> > >
> > > Hi
> > >
> > > I am using a Behringer FCA202 FireWire interface with my very
> simple softrock liteII receiver. It works absolutely fine using Winrad
> or PowerSDR software but KGKSDR doesn't seem to accept it.
> > >
> > > The unit samples at 96Khz using an asio driver running within an XP
> platform.
> > >
> > > The message I receive when attempting to start the rx is "Format
> not supported while opening soundcard for output".
> > >
> > > Any ideas are welcome.
> > >
> > > Cheers
> > >
> > > Dave
> > >
> >

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1579. New Yahoogroups UI - Attn. Listowner

Yahoo group: kgksdr
Date: 2010-09-17 05:58:51 UTC
From: Joe
Topic: 1579 Message: 1579

The tekscopes Yahoo group was recently converted to the new User Interface.

This interface seems to be an attempt to mimic the Facebook interface. The interface is missing many features/functions which allow searching, removal of spam messages and more. A more exhaustive list can be found among the postings at: http://suggestions.yahoo.com/?prop=groups and http://www.ygroupsblog.com/

I believe that the lists that were sent this message have NOT been converted to the new UI.

Yahoo is incrementally converting groups to the new format. I suggest that you research the alleged problems and take appropriate actions.

In Yahoo's drive to be like Facebook, I believe that the converted archives will be in danger of being lost or being unusable. Converted groups have seen missing messages, lost message numbers and mangled threads.

I suggest that a capture your current archive would be a prudent thing along with a copy of your current membership.

Characteristics of that capture might include:

1. Retention of titles and content

2. Message numbers and thread relationships are maintained

3. The resulting archive be accessible at the message level and thread level

The above may be useful in housing your archive in a non-Yahoo site.

Joe, K9HDE (aka Chicken Little?)

1580. Any development progress?

Yahoo group: kgksdr
Date: 2010-09-25 06:26:28 UTC
From: wb6yte
Topic: 1580 Message: 1580

Duncan,

I enjoyed using KGKSDR with MultiPSK connected with the loop.dll program until my antivirus program deleted loop.dll. I think there are many people who would enjoy having an easy way to connect KGKSDR with MultiPSK or other digital mode programs. Is there any possibility of reviving and updating loop.dll - and possibly promoting it as an option for connecting other SDR programs with other digital mode programs?

Can you tell us how the interface worked? What was the protocol used for communication between the programs? What was required in KGKSDR to integrate it with loop.dll? I am interested in looking into this as a home project to refresh and add to my programming skills.

Thanks,
Ed
WB6YTE

1581. Re: Any development progress?

Yahoo group: kgksdr
Date: 2010-09-25 08:18:36 UTC
From: Duncan
Topic: 1580 Message: 1581

Hi Ed, if you need to get another copy of loop.dll it can be downloaded from the files area. I can't give much detail about how it works as I didn't write it, but the author's call is in the file.

73,
Duncan

--- In kgksdr@yahoogroups.com, "wb6yte" <wb6yte@...> wrote:
>
> Duncan,
>
> I enjoyed using KGKSDR with MultiPSK connected with the loop.dll program until my antivirus program deleted loop.dll. I think there are many people who would enjoy having an easy way to connect KGKSDR with MultiPSK or other digital mode programs. Is there any possibility of reviving and updating loop.dll - and possibly promoting it as an option for connecting other SDR programs with other digital mode programs?
>
> Can you tell us how the interface worked? What was the protocol used for communication between the programs? What was required in KGKSDR to integrate it with loop.dll? I am interested in looking into this as a home project to refresh and add to my programming skills.
>
> Thanks,
> Ed
> WB6YTE
>

1582. Re: Any development progress?

Yahoo group: kgksdr
Date: 2010-09-25 23:25:35 UTC
From: wb6yte
Topic: 1580 Message: 1582

Thanks, Duncan. I downloaded a new copy but my antivirus program prevents me from copying it to the KGKSDR or the MultiPSK program folder.

I have asked Cesco, HB9TLK, about it but did not receive a response. Can you tell me what loop.dll functions you used in KGKSDR?

Ed

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> Hi Ed, if you need to get another copy of loop.dll it can be downloaded from the files area. I can't give much detail about how it works as I didn't write it, but the author's call is in the file.
>
> 73,
> Duncan
>
> --- In kgksdr@yahoogroups.com, "wb6yte" <wb6yte@> wrote:
> >
> > Duncan,
> >
> > I enjoyed using KGKSDR with MultiPSK connected with the loop.dll program until my antivirus program deleted loop.dll. I think there are many people who would enjoy having an easy way to connect KGKSDR with MultiPSK or other digital mode programs. Is there any possibility of reviving and updating loop.dll - and possibly promoting it as an option for connecting other SDR programs with other digital mode programs?
> >
> > Can you tell us how the interface worked? What was the protocol used for communication between the programs? What was required in KGKSDR to integrate it with loop.dll? I am interested in looking into this as a home project to refresh and add to my programming skills.
> >
> > Thanks,
> > Ed
> > WB6YTE
> >
>

1583. TX image correction doesn't work

Yahoo group: kgksdr
Date: 2010-10-13 18:34:40 UTC
From: iami78
Topic: 1583 Message: 1583

What might be causing this: I adjust the TX image calibration values (save at least 10 points on 48 kHz spectrum), the values are relatively small, but when I return from the calibration procedure and transmit, the image is back.

This problem occurred when I changed from sound card to another.

I had this problem once, but the problem was in the hardware (the calibration values were too high). This time I just can't figure out the cause of the problem.

73 de Janne OH1SDR

1584. Re: TX image correction doesn't work

Yahoo group: kgksdr
Date: 2010-10-13 20:55:36 UTC
From: Duncan
Topic: 1583 Message: 1584

Hi Janne,

For my own troubleshooting with something like this, I would delete the offending calibration map and try again. The transmit should give the same results as the calibration, so I'm not sure why it should behave one way and then another.

Let me know what happens and we'll try and work out the next steps.

73,

Duncan
M0KGK

--- In kgksdr@yahoogroups.com, "iami78" <iami78@...> wrote:
>
>
> What might be causing this: I adjust the TX image calibration values (save at least 10 points on 48 kHz spectrum), the values are relatively small, but when I return from the calibration procedure and transmit, the image is back.
>
> This problem occurred when I changed from sound card to another.
>
> I had this problem once, but the problem was in the hardware (the calibration values were too high). This time I just can't figure out the cause of the problem.
>
> 73 de Janne OH1SDR
>

1585. two ASIO cards

Yahoo group: kgksdr
Date: 2010-10-29 14:46:17 UTC
From: cristiano
Topic: 1585 Message: 1585

Hi Duncan,
I wish to know if can be possible to use two different asio cards
whithout using asio4all (with the native asio drivers of the cards)

PS

Excellent software, the best image rejection feature i have seen!!
SI570 support should be a great improvement..

73
Cristiano IW5EL

1586. Re: two ASIO cards

Yahoo group: kgksdr
Date: 2010-10-29 15:39:06 UTC
From: Duncan
Topic: 1585 Message: 1586

Hi Cristiano,

Using a card with native ASIO drivers is OK, although I have not tried to do it with two, I think KGKSDR has to have a single driver for all four channels, but will double check when I get home.

73,
Duncan
M0KGK

--- In kgksdr@yahoogroups.com, "cristiano" <cristianocellesi@...> wrote:
>
> Hi Duncan,
> I wish to know if can be possible to use two different asio cards
> whithout using asio4all (with the native asio drivers of the cards)
>
> PS
>
> Excellent software, the best image rejection feature i have seen!!
> SI570 support should be a great improvement..
>
> 73
> Cristiano IW5EL
>

1587. Re: two ASIO cards

Yahoo group: kgksdr
Date: 2010-10-29 17:44:14 UTC
From: Duncan
Topic: 1585 Message: 1587

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> Hi Cristiano,
>
> Using a card with native ASIO drivers is OK, although I have not tried to do it with two, I think KGKSDR has to have a single driver for all four channels, but will double check when I get home.

Just had a look and can confirm only one ASIO driver can be used at a time, so if you have two cards on two different drivers it looks like only one can be selected, sorry.

73,

Duncan
M0KGK

1588. Re: two ASIO cards

Yahoo group: kgksdr
Date: 2010-10-29 20:20:52 UTC
From: cristiano
Topic: 1585 Message: 1588

Ok Duncan tnx for the soon reply, i use kgksdr with an avala 01 transceiver as 50 mhz IF for my 10 ghz transverter with excellent performances. Thanks for your work!

73
Cristiano IW5EL - Florence

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> --- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@> wrote:
> >
> > Hi Cristiano,
> >
> > Using a card with native ASIO drivers is OK, although I have not tried to do it with two, I think KGKSDR has to have a single driver for all four channels, but will double check when I get home.
>
> Just had a look and can confirm only one ASIO driver can be used at a time, so if you have two cards on two different drivers it looks like only one can be selected, sorry.
>
> 73,
>
> Duncan
> M0KGK
>

1589. si570 support

Yahoo group: kgksdr
Date: 2010-11-19 18:49:56 UTC
From: cristiano
Topic: 1589 Message: 1589

Duncan, do you plan any update for supporting directly the si570 sintesyzers in your software?

73 IW5EL Cristiano

1590. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-19 19:35:21 UTC
From: Duncan
Topic: 1589 Message: 1590

--- In kgksdr@yahoogroups.com, "cristiano" <cristianocellesi@...> wrote:
>
> Duncan, do you plan any update for supporting directly the si570 sintesyzers in your software?

Hi Cristiano,

I did look at this a while back and was even given an Si570 kit which I have still to complete. If someone can let me know how to drive the Si570 I can add the code to KGKSDR but would need someone to test for me.

73,

Duncan
M0KGK

1591. Re: [kgksdr] Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-20 01:15:10 UTC
From: Sid Boyce
Topic: 1589 Message: 1591

On 19/11/10 19:35, Duncan wrote:
>
> --- In kgksdr@yahoogroups.com <mailto:kgksdr%40yahoogroups.com>,
> "cristiano" <cristianocellesi@...> wrote:
> >
> > Duncan, do you plan any update for supporting directly the si570
> sintesyzers in your software?
>
> Hi Cristiano,
>
> I did look at this a while back and was even given an Si570 kit which I
> have still to complete. If someone can let me know how to drive the
> Si570 I can add the code to KGKSDR but would need someone to test for me.
>
> 73,
>
> Duncan
> M0KGK
>

Three pointers that may help, there is softrock40 --> Files --> VK6JBL
--> usbsoftrock-1.0.1.tar.gz from which si570 support code was drawn
from in hamlib, linrad and quisk.
73 ... Sid.
--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1592. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-20 19:56:00 UTC
From: wb6yte
Topic: 1589 Message: 1592

Duncan,

There are several possible approaches.

1) Use DXLab Commander for the radio control. This has support for many radios including Flex radios. Softrock/Si570 support should not be difficult to add.

2) I have written a python script that listens to a serial port for Kenwood style commands and translates/sends them to a Softrock/MoBo type radio. I used this with DXLab Commander. It can be modified for a UDP or TCP socket interface and any command set you want to implement.

3) Look at the documentation for the source code for the Softrock V9.0 (http://groups.yahoo.com/group/softrock40)or the MoBo 4.3 (http://groups.google.com/group/MOBOKITS) Si570 controllers. In the files section for the softrock40 group, there are several examples of Si570 controller software.

I have a little experience with C++ programming and would be happy to work with you on the interface and the testing. What information do you need?

Ed
WB6YTE

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> --- In kgksdr@yahoogroups.com, "cristiano" <cristianocellesi@> wrote:
> >
> > Duncan, do you plan any update for supporting directly the si570 sintesyzers in your software?
>
> Hi Cristiano,
>
> I did look at this a while back and was even given an Si570 kit which I have still to complete. If someone can let me know how to drive the Si570 I can add the code to KGKSDR but would need someone to test for me.
>
> 73,
> Duncan
> M0KGK
>

1593. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-20 20:01:56 UTC
From: wb6yte
Topic: 1589 Message: 1593

I see the yahoo group, softrock40, has already been suggested.

I forgot to mention a couple other things.

My python script can also be executed from a command line. Also there is another program, cmdSR.exe, that also provides command line control of the frequency and PTT.

Is kgksdr written in C/C++?

Ed

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> --- In kgksdr@yahoogroups.com, "cristiano" <cristianocellesi@> wrote:
> >
> > Duncan, do you plan any update for supporting directly the si570 sintesyzers in your software?
>
> Hi Cristiano,
>
> I did look at this a while back and was even given an Si570 kit which I have still to complete. If someone can let me know how to drive the Si570 I can add the code to KGKSDR but would need someone to test for me.
>
> 73,
>
> Duncan
> M0KGK
>

1594. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-20 20:59:38 UTC
From: Duncan
Topic: 1589 Message: 1594

--- In kgksdr@yahoogroups.com, "wb6yte" <wb6yte@...> wrote:
>
> I see the yahoo group, softrock40, has already been suggested.
>

Thanks both for all the points, much appreciated.

> Is kgksdr written in C/C++?

No, KGKSDR is written in Delphi.

73,

Duncan
M0KGK

1595. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-21 16:16:34 UTC
From: Dave
Topic: 1589 Message: 1595

>Posted by: "Duncan" m0kgk@... duncanamps
>Sat Nov 20, 2010 12:59 pm (PST)
>
>--- In kgksdr@yahoogroups.com, "wb6yte" <wb6yte@...> wrote:
>>
>> I see the yahoo group, softrock40, has already been suggested.
>>
>
>Thanks both for all the points, much appreciated.
>
>> Is kgksdr written in C/C++?
>
>No, KGKSDR is written in Delphi.
>
>73,
>
>Duncan
>M0KGK
>
>

That's Good to hear Duncan.

Alex VE3NEA and others have native Delphi Si750 driving code if needed.
http://www.dxatlas.com/Dev/ and scroll down to near the bottom.

73
Dave G0WBX.
(Delphi 7 owner/user)

1596. Re: si570 support

Yahoo group: kgksdr
Date: 2010-11-25 19:43:07 UTC
From: cristiano
Topic: 1589 Message: 1596

I love KGKSDR for it's unique image rejection feature, the best ever seen on similar softwares. The support for the SI570 will transform it
in the best soft for the i/q sdr community!

73
IW5EL Cristiano

--- In kgksdr@yahoogroups.com, "Dave" <dave@...> wrote:
>
> >Posted by: "Duncan" m0kgk@... duncanamps
> >Sat Nov 20, 2010 12:59 pm (PST)
> >
> >--- In kgksdr@yahoogroups.com, "wb6yte" <wb6yte@> wrote:
> >>
> >> I see the yahoo group, softrock40, has already been suggested.
> >>
> >
> >Thanks both for all the points, much appreciated.
> >
> >> Is kgksdr written in C/C++?
> >
> >No, KGKSDR is written in Delphi.
> >
> >73,
> >
> >Duncan
> >M0KGK
> >
> >
>
> That's Good to hear Duncan.
>
> Alex VE3NEA and others have native Delphi Si750 driving code if needed.
> http://www.dxatlas.com/Dev/ and scroll down to near the bottom.
>
> 73
> Dave G0WBX.
> (Delphi 7 owner/user)
>

1597. Integration between M0KGK and CAT system

Yahoo group: kgksdr
Date: 2010-11-30 17:09:54 UTC
From: Pedro
Topic: 1597 Message: 1597

Hello,

I'm willing to integrate M0KGK into the CAT system of my station (based on OmniRig).

From what I'd researched no implementation seems to be available.

References to the usage of loop.dll has been made here and there but it's not clear how it's used for a program to interact with M0KGK and have failed to see any documentation about it's usage.

I'm looking at things such as setting the frequency and the mode, perhaps even the VFO and the filter width would be nice.

I'm fairly fluent on Delphi so I'm looking on tips and techniques to develop it by myself if not readily available from other source.

Any guidance would be mostly welcomed.

73 de Pedro, LU7HZ

1598. Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Yahoo group: kgksdr
Date: 2011-01-11 07:17:01 UTC
From: BEHIELS JEAN-PIERRE
Topic: 1598 Message: 1598

Hi Softrock members/builders;

A long time ago I already have build the softrock unit for use in conjunction with the IF signal processor of my FT1000D.
The mean difference with the original Softrock units is te changed cristal frequency for use with the IF of 8.215 Mhz of the FT1000D.
My mean idee of this subject and building the kit was to obtain a additional spectrum scope for my Yaesu FT1000D transceiver !
Because the FT1000D is a already little bit older transceiver this feature has not installed hi ..
I saw in the documentation around this subject,that they are talking all the time around the receiving frequencys of into the 40m band (7.100 Mhz).
You really understood my mean objectif of building this project was to obtain een supplementary bandscope utility for my FT1000D on all the hambands.
Now my question before I build-in the circuit in a dicast box and before I do some modifications behind the FT1000D case.
Can I use this circuit for watching activity on a part of the band in a particulary tuned frequency of my FT1000D is ??
Or is this functionality of the Softrock circuit and PCB design only usuable for the 7.100 Mhz band portion ??
If this is so I will not continu with this little project,and than the build and buy has been a mal understood mistake of my !!!!!
My Softrock unit is ready build,so I will sell the small interface unit to another interested person especially for this purpose on 40M band.
I look forward to receive a good complete explanation around the subject.
I only just have some building schematics and a little documentation to connect the unit,with the IF unit of the FT1000D designed by VK6VZ and companions hi..
Everything is in baddest case disponsible for the interested buyer hi.

Sincerly es 73's Jean ON4AEF.

1599. Re: Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Yahoo group: kgksdr
Date: 2011-01-11 08:03:39 UTC
From: Duncan
Topic: 1598 Message: 1599

Hi Jean,

I believe you can do this but it may be worth you posting on the softrock40 group to check (this is the kgksdr group you are posting to).

73,

Duncan
M0KGK

--- In kgksdr@yahoogroups.com, "BEHIELS JEAN-PIERRE" <ON4AEF@...> wrote:
>
> Hi Softrock members/builders;
>
> A long time ago I already have build the softrock unit for use in conjunction with the IF signal processor of my FT1000D.
> The mean difference with the original Softrock units is te changed cristal frequency for use with the IF of 8.215 Mhz of the FT1000D.
> My mean idee of this subject and building the kit was to obtain a additional spectrum scope for my Yaesu FT1000D transceiver !
> Because the FT1000D is a already little bit older transceiver this feature has not installed hi ..
> I saw in the documentation around this subject,that they are talking all the time around the receiving frequencys of into the 40m band (7.100 Mhz).
> You really understood my mean objectif of building this project was to obtain een supplementary bandscope utility for my FT1000D on all the hambands.
> Now my question before I build-in the circuit in a dicast box and before I do some modifications behind the FT1000D case.
> Can I use this circuit for watching activity on a part of the band in a particulary tuned frequency of my FT1000D is ??
> Or is this functionality of the Softrock circuit and PCB design only usuable for the 7.100 Mhz band portion ??
> If this is so I will not continu with this little project,and than the build and buy has been a mal understood mistake of my !!!!!
> My Softrock unit is ready build,so I will sell the small interface unit to another interested person especially for this purpose on 40M band.
> I look forward to receive a good complete explanation around the subject.
> I only just have some building schematics and a little documentation to connect the unit,with the IF unit of the FT1000D designed by VK6VZ and companions hi..
> Everything is in baddest case disponsible for the interested buyer hi.
>
> Sincerly es 73's Jean ON4AEF.
>

1600. Re: [kgksdr] Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Yahoo group: kgksdr
Date: 2011-01-11 08:07:03 UTC
From: OM0AAO Viliam
Topic: 1598 Message: 1600

Hi folks,

I made SDR bandscope for FT-1000MP: http://www.youtube.com/watch?v=dW1pydwJgGc

It uses 1st IF (70,455MHz) downcoverted to 5,5MHz where is running SDR receiver. It is based on German kit:

http://www.box73.de/catalog/product_info.php?cPath=112_113_143&products_id=2146&osCsid=ab9afade67beacac584129d3a56a44b2

together with LO signal from si570 http://sdr-kits.net/PAOKLT/PAOKLT.html

The hardest thing is open TCVR and make the connection on the tap point. There was added simple preamplifier with BF245.

73'Viliam, OM0AAO / OM0A

administrator www.cq.sk (http://www.cq.sk)

1601. Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Yahoo group: kgksdr
Date: 2011-01-11 08:13:18 UTC
From: BEHIELS JEAN-PIERRE
Topic: 1598 Message: 1601

Hi Duncan;

Tks for replying my question Duncan.
Maby you can post it there for my also because I am not a real member of this group,and replying the answer of this group to me ?
I hope anyway I can use it for the whole hambands otherwise I have done a lot of fool work on this project.

73's Jean ON4AEF.

----- Original Message -----
From: Duncan
To: kgksdr@yahoogroups.com
Sent: Tuesday, January 11, 2011 9:03 AM
Subject: [kgksdr] Re: Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Hi Jean,

I believe you can do this but it may be worth you posting on the softrock40 group to check (this is the kgksdr group you are posting to).

73,

Duncan
M0KGK

--- In kgksdr@yahoogroups.com, "BEHIELS JEAN-PIERRE" <ON4AEF@...> wrote:
>
> Hi Softrock members/builders;
>
> A long time ago I already have build the softrock unit for use in conjunction with the IF signal processor of my FT1000D.
> The mean difference with the original Softrock units is te changed cristal frequency for use with the IF of 8.215 Mhz of the FT1000D.
> My mean idee of this subject and building the kit was to obtain a additional spectrum scope for my Yaesu FT1000D transceiver !
> Because the FT1000D is a already little bit older transceiver this feature has not installed hi ..
> I saw in the documentation around this subject,that they are talking all the time around the receiving frequencys of into the 40m band (7.100 Mhz).
> You really understood my mean objectif of building this project was to obtain een supplementary bandscope utility for my FT1000D on all the hambands.
> Now my question before I build-in the circuit in a dicast box and before I do some modifications behind the FT1000D case.

> Can I use this circuit for watching activity on a part of the band in a particulary tuned frequency of my FT1000D is ??
> Or is this functionality of the Softrock circuit and PCB design only usuable for the 7.100 Mhz band portion ??
> If this is so I will not continu with this little project,and than the build and buy has been a mal understood mistake of my !!!!!
> My Softrock unit is ready build,so I will sell the small interface unit to another interested person especially for this purpose on 40M band.
> I look forward to receive a good complete explanation around the subject.
> I only just have some building schematics and a little documentation to connect the unit,with the IF unit of the FT1000D designed by VK6VZ and companions hi..
> Everything is in baddest case disponsible for the interested buyer hi.
>
> Sincerly es 73's Jean ON4AEF.
>

1602. Re: [kgksdr] Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

Yahoo group: kgksdr
Date: 2011-01-11 08:29:04 UTC
From: Alan
Topic: 1598 Message: 1602

----- Original Message -----
From: "BEHIELS JEAN-PIERRE"
Subject: [kgksdr] Using softrock v6 as a DSP back-end for the FT1000D transceiver.....GENERAL BANDSCOPE use ?

>Maby you can post it there for my also because I am not a real member of
>this group,and replying the answer of this group to me ?
I hope anyway I can use it for the whole hambands otherwise I have done a lot of fool work on this project.

Join the Softrock40 group. You will get your answer there.

73 Alan G4ZFQ

1604. Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-24 17:56:01 UTC
From: g3sew
Topic: 1604 Message: 1604

Hi

Just installed version 1.1.0.64 of KGSDR onto my win 7 64-bit machine, and got a full bodied blue screen crash. I could not see which OS versions it is designed to work with. Can you point me in the right direction for this please.

Thanks,

Lee G3SEW

1605. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-24 22:37:49 UTC
From: Duncan
Topic: 1604 Message: 1605

--- In kgksdr@yahoogroups.com, "g3sew" <g3sew@...> wrote:
>
> Hi
>
> Just installed version 1.1.0.64 of KGSDR onto my win 7 64-bit machine, and got a full bodied blue screen crash. I could not see which OS versions it is designed to work with. Can you point me in the right direction for this please.

Hi Lee, welcome to the group. KGKSDR should work on Windows 2000 and up, so effectively Windows 2000, 2003, 2008, XP, Windows 7 etc.

I've tried it tonight on Windows 7 Home Edition 64 bit and it runs up fine so I'm wondering if you have a problem with ASIO4ALL? Can you let me know what version you are running.

73,

Duncan
M0KGK

1606. Integration with OmniRig

Yahoo group: kgksdr
Date: 2011-05-26 00:56:34 UTC
From: Pedro
Topic: 1606 Message: 1606

Hi,

Is there any API that I can use to integrate KGKSDR with OmniRig by writting the appropiate code for it?

If not, any way to contribute to make that project happen?

73 de Pedro LU7HZ

1607. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-26 15:47:42 UTC
From: g3sew
Topic: 1604 Message: 1607

Duncan,

I didn't install asio4all as I believe that my soundcard - the EMU0202 - uses asio drivers

If I install asio4all is there any chance that this will adversely affect the EMU?

Lee G3SEW

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> >
> > Hi
> >
> > Just installed version 1.1.0.64 of KGSDR onto my win 7 64-bit machine, and got a full bodied blue screen crash. I could not see which OS versions it is designed to work with. Can you point me in the right direction for this please.
>
> Hi Lee, welcome to the group. KGKSDR should work on Windows 2000 and up, so effectively Windows 2000, 2003, 2008, XP, Windows 7 etc.
>
> I've tried it tonight on Windows 7 Home Edition 64 bit and it runs up fine so I'm wondering if you have a problem with ASIO4ALL? Can you let me know what version you are running.
>
> 73,
>
> Duncan
> M0KGK
>

1608. Re: Integration with OmniRig

Yahoo group: kgksdr
Date: 2011-05-26 16:41:01 UTC
From: Duncan
Topic: 1606 Message: 1608

Hi Pedro,

There is currently no integration for controlling external devices. It's something I must look at but not sure when that is likely to be.

73,
Duncan

--- In kgksdr@yahoogroups.com, "Pedro" <lu7hz@...> wrote:
>
> Hi,
>
> Is there any API that I can use to integrate KGKSDR with OmniRig by writting the appropiate code for it?
>
> If not, any way to contribute to make that project happen?
>
> 73 de Pedro LU7HZ
>

1609. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-26 16:45:56 UTC
From: Duncan
Topic: 1604 Message: 1609

Hi Lee,

No need to install ASIO4all if you are using native drivers, although to be fair I have not tested with native ASIO drivers on Windows 7 and have no means to try this.

Is it possible you can get me a screen dump of when the app fails?

73,
Duncan

--- In kgksdr@yahoogroups.com, "g3sew" <g3sew@...> wrote:
>
> Duncan,
>
> I didn't install asio4all as I believe that my soundcard - the EMU0202 - uses asio drivers
>
> If I install asio4all is there any chance that this will adversely affect the EMU?
>
>
> Lee G3SEW
>
>
> --- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@> wrote:
> >
> > --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> > >
> > > Hi
> > >
> > > Just installed version 1.1.0.64 of KGSDR onto my win 7 64-bit machine, and got a full bodied blue screen crash. I could not see which OS versions it is designed to work with. Can you point me in the right direction for this please.
> >
> > Hi Lee, welcome to the group. KGKSDR should work on Windows 2000 and up, so effectively Windows 2000, 2003, 2008, XP, Windows 7 etc.
> >
> > I've tried it tonight on Windows 7 Home Edition 64 bit and it runs up fine so I'm wondering if you have a problem with ASIO4ALL? Can you let me know what version you are running.
> >
> > 73,
> >
> > Duncan
> > M0KGK
> >
>

1610. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-26 16:59:36 UTC
From: g3sew
Topic: 1604 Message: 1610

The program didn't freeze. It just went straight to a blue screen, so it would be tricky making a screen dump.

Also because of the severity of the crash I am a little reluctant to try it again, as this machine has ALL my stuff on it :-)

Lee G3SEW

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
> Hi Lee,
>
> No need to install ASIO4all if you are using native drivers, although to be fair I have not tested with native ASIO drivers on Windows 7 and have no means to try this.
>
> Is it possible you can get me a screen dump of when the app fails?
>
> 73,
> Duncan
>
> --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> >
> > Duncan,
> >
> > I didn't install asio4all as I believe that my soundcard - the EMU0202 - uses asio drivers
> >
> > If I install asio4all is there any chance that this will adversely affect the EMU?
> >
> >
> > Lee G3SEW
> >
> >
> > --- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@> wrote:
> > >
> > > --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> > > >
> > > > Hi
> > > >
> > > > Just installed version 1.1.0.64 of KGSDR onto my win 7 64-bit machine, and got a full bodied blue screen crash. I could not see which OS versions it is designed to work with. Can you point me in the right direction for this please.
> > >
> > > Hi Lee, welcome to the group. KGKSDR should work on Windows 2000 and up, so effectively Windows 2000, 2003, 2008, XP, Windows 7 etc.
> > >

> > > I've tried it tonight on Windows 7 Home Edition 64 bit and it runs up fine so I'm wondering if you have a problem with ASIO4ALL? Can you let me know what version you are running.
> > >
> > > 73,
> > >
> > > Duncan
> > > M0KGK
> > >
> >
>

1611. Re: Integration with OmniRig

Yahoo group: kgksdr
Date: 2011-05-26 17:48:39 UTC
From: Pedro
Topic: 1606 Message: 1611

Hi Duncan,

I'm fairly fluent in programming, if there is any help I can provide in such project please count me in.

73 Pedro LU7HZ

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> Hi Pedro,
>
> There is currently no integration for controlling external devices. It's something I must look at but not sure when that is likely to be.
>
> 73,
> Duncan
>
> --- In kgksdr@yahoogroups.com, "Pedro" <lu7hz@> wrote:
> >
> > Hi,
> >
> > Is there any API that I can use to integrate KGKSDR with OmniRig by writting the appropiate code for it?
> >
> > If not, any way to contribute to make that project happen?
> >
> > 73 de Pedro LU7HZ
> >
>

1612. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-26 18:14:59 UTC
From: Duncan
Topic: 1604 Message: 1612

--- In kgksdr@yahoogroups.com, "g3sew" <g3sew@...> wrote:
>
> The program didn't freeze. It just went straight to a blue screen, so it would be tricky making a screen dump.
>
> Also because of the severity of the crash I am a little reluctant to try it again, as this machine has ALL my stuff on it :-)
>

Hi Lee,

Fair enough, don't want to cause a problem with your system :-) Blue screen is normally very low level device drivers messing the system up, so that's where I would do the checking.

I've downloaded the Emu 0202 manual and it's compatible with Windows XP and Vista (32 and 64 bit editions), but cannot see mention of Windows 7. Do you know what the status of the drivers is? i.e. are they Windows 7 compatible, and non-beta versions?

73,
Duncan

1613. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-27 07:09:18 UTC
From: g3sew
Topic: 1604 Message: 1613

Hi Duncan,

Thanks for going to so much trouble.

The driver I am using is the top one on the list at the following address:
http://connect.creativelabs.com/emu/default.aspx

It is a beta for Windows 7, and it has behaved itself well over a good few months.

Lee G3SEW

--- In kgksdr@yahoogroups.com, "Duncan" <m0kgk@...> wrote:
>
>
> --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> >
> > The program didn't freeze. It just went straight to a blue screen, so it would be tricky making a screen dump.
> >
> > Also because of the severity of the crash I am a little reluctant to try it again, as this machine has ALL my stuff on it :-)
> >
>
> Hi Lee,
>
> Fair enough, don't want to cause a problem with your system :-) Blue screen is normally very low level device drivers messing the system up, so that's where I would do the checking.
>
> I've downloaded the Emu 0202 manual and it's compatible with Windows XP and Vista (32 and 64 bit editions), but cannot see mention of Windows 7. Do you know what the status of the drivers is? i.e. are they Windows 7 compatible, and non-beta versions?
>
> 73,
> Duncan
>

1614. Re: Integration with OmniRig

Yahoo group: kgksdr
Date: 2011-05-27 07:13:09 UTC
From: Dave
Topic: 1606 Message: 1614

I don't know about KGKSDR, but I have made OmniRig control a basic SoftRock V9.0 and it's Si570, via a modified DG8SAQ Si570 test program that I added a serial port to for accepting remote commands.

The resulting audio IF's being used by Faros for HF beacon monitoring.

It's not elegant, but it does work. I still need to sort out the RF filtering though, not enough time in the day, days in a weekend etc.

73

Dave G0WBX.

1615. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-27 17:57:06 UTC
From: Duncan
Topic: 1604 Message: 1615

--- In kgksdr@yahoogroups.com, "g3sew" <g3sew@...> wrote:
>
> Hi Duncan,
>
> Thanks for going to so much trouble.
>
> The driver I am using is the top one on the list at the following address:
> http://connect.creativelabs.com/emu/default.aspx
>
> It is a beta for Windows 7, and it has behaved itself well over a good few months.
>

Thanks Lee. I'm not sure where to go from here - have you used the card with other ASIO apps or just through normal Windows sound system? Might be worth installing ASIO4ALL to see if the problem goes away, other than that I'm out of ideas :-(

73,
Duncan

1616. Re: Integration with OmniRig

Yahoo group: kgksdr
Date: 2011-05-29 12:30:04 UTC
From: Pedro
Topic: 1606 Message: 1616

Hi,

I guess that if an API to allow KGKSDR to connect with other programs is developed it will require both sides. For other programs to control KGKSDR externally (i.e. OmniRig) and for KGKSDR to control the hardware
like in your case.

In my case my SDR receiver is crystal based so there isn't much to control there but I would like to integrate it to my CAT enabled station where I can control the "rig" (a virtual one in the case of KGKSDR) in terms of it's frequency, mode, filter, VFO, etc.

In the case of KGK it won't be much more than to enable to send externally messages to the controls it already has. In fact it should be possible to make it happen with a key automation program such as AutoHotKey, but there should be a more elegant way such as a DLL callback from inside KGKSDR that receives and allows to post windows messages.

73 de Pedro LU7HZ
--- In kgksdr@yahoogroups.com, "Dave" <dave@...> wrote:
>
> I don't know about KGKSDR, but I have made OmniRig control a basic
> SoftRock V9.0 and it's Si570, via a modified DG8SAQ Si570 test program
> that I added a serial port to for accepting remote commands.
>
> The resulting audio IF's being used by Faros for HF beacon monitoring.
>
> It's not elegant, but it does work. I still need to sort out the RF
> filtering though, not enough time in the day, days in a weekend etc.
>
> 73
>
> Dave G0WBX.
>

1617. Re: Which version of windows does kgsdr work on?

Yahoo group: kgksdr
Date: 2011-05-30 16:51:09 UTC
From: g3sew
Topic: 1604 Message: 1617

Not sure how I can tell when the driver is being used with other apps or not.

In fact even in Winrad I often find that it has switched over to the 16-bit MME drivers without me telling it to.

I may have a go with the ASIO4ALL drivers to see wht that gives.

Lee G3SEW

--- In kgksdr@...m, "Duncan" <m0kgk@...> wrote:
>
>
> --- In kgksdr@yahoogroups.com, "g3sew" <g3sew@> wrote:
> >
> > Hi Duncan,
> >
> > Thanks for going to so much trouble.
> >
> > The driver I am using is the top one on the list at the following address:
> > http://connect.creativelabs.com/emu/default.aspx
> >
> > It is a beta for Windows 7, and it has behaved itself well over a good few months.
> >
>
> Thanks Lee. I'm not sure where to go from here - have you used the card with other ASIO apps or just through normal Windows sound system? Might be worth installing ASIO4ALL to see if the problem goes away, other than that I'm out of ideas :-(
>
> 73,
> Duncan
>

1618. large signal at centre frequency

Yahoo group: kgksdr
Date: 2011-08-30 21:12:42 UTC
From: Geoff
Topic: 1618 Message: 1618

Hi,

I have just built the Kanga Finningley 80m SDR unit described in the August RadCom.

It is receiving signals that can be decoded OK but I have a large signal on the centre frequency about 65dB above the noise floor.

This signal is present when the whether the hardware is powered up or not and can be seen on other sound analyser programs.

I am not using a separate sound card but a friend is getting the same result on his PC which has a Delta 44 sound card.

I have tried all combinations of sound card settings and levels to no avail.

Can anyone suggest why this signal is present and, more important, how it can be removed.

Geoff

1619. Re: [kgksdr] large signal at centre frequency

Yahoo group: kgksdr
Date: 2011-08-30 23:02:12 UTC
From: john@g8seq.com
Topic: 1618 Message: 1619

Hi Geoff,
This sounds like the zero frequency spike. Are the signalsto the left of this spike mirror images of those to the right? If so it sounds as though either the q o/p or the I o/p isn't working/connected. That is the image isn't being cancelled by the quadrature detector. It may be that you are plugged into the wrong jack on your sound card. You need to use the stereo line in jack. The mic jack on most common sound cards is mono so won't work with a quadrature detector.

de John G8SEQ

> -------Original Message-------
> From: Geoff <m0ore@...>
> To: kgksdr@yahoogroups.com
> Subject: [kgksdr] large signal at centre frequency
> Sent: Aug 30 '11 22:12
>
> Hi,
>
> I have just built the Kanga Finningley 80m SDR unit described in the
> August RadCom.
>
> It is receiving signals that can be decoded OK but I have a large signal
> on the centre frequency about 65dB above the noise floor.
>
> This signal is present when the whether the hardware is powered up or not
> and can be seen on other sound analyser programs.
>
> I am not using a separate sound card but a friend is getting the same
> result on his PC which has a Delta 44 sound card.
>
> I have tried all combinations of sound card settings and levels to no
> avail.
>
> Can anyone suggest why this signal is present and, more important, how it
> can be removed.
>
> Geoff
>
>
>

1620. Re: [kgksdr] large signal at centre frequency

Yahoo group: kgksdr
Date: 2011-08-31 00:14:27 UTC
From: Sid Boyce
Topic: 1618 Message: 1620

Check out
http://sites.google.com/site/g4zfqradio/sdr-with-soundcard-basic-faults.
73 ... Sid.

On 30/08/11 22:12, Geoff wrote:
>
> Hi,
>
> I have just built the Kanga Finningley 80m SDR unit described in the
> August RadCom.
>
> It is receiving signals that can be decoded OK but I have a large
> signal on the centre frequency about 65dB above the noise floor.
>
> This signal is present when the whether the hardware is powered up or
> not and can be seen on other sound analyser programs.
>
> I am not using a separate sound card but a friend is getting the same
> result on his PC which has a Delta 44 sound card.
>
> I have tried all combinations of sound card settings and levels to no
> avail.
>
> Can anyone suggest why this signal is present and, more important, how
> it can be removed.
>
> Geoff
>
>

--
Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
Senior Staff Specialist, Cricket Coach
Microsoft Windows Free Zone - Linux used for all Computing Tasks

1621. Re: [kgksdr] large signal at centre frequency

Yahoo group: kgksdr
Date: 2011-09-04 18:41:38 UTC
From: Geoff Moore
Topic: 1618 Message: 1621

Firstly, my thanks to Sid and John for their suggestions to reduce the zero frequency spike.

I have changed the sound card to a Soundblaster PCI 128. (NOT the one mentioned in the help files). This reduced the spike and noise around the zero freq by a sizeable amount.

I then did a manual calibration at one freq and all seemed well so I proceded to do some more manual calibrations at other frequencies but when I tried to start the receiver (F9), the program ceased to respond.

I removed the program and re-installed off a fresh download and it still crashes whenever I start the receiver. The options can be changed OK without the program crashes.

I have my doubts that all program info has been removed as the hardware details I entered originally still show up.

Any suggestions ?

Geoff

----- Original Message -----
From: "Sid Boyce" <sboyce@...>
To: <kgksdr@yahoogroups.com>
Sent: Wednesday, August 31, 2011 1:14 AM
Subject: Re: [kgksdr] large signal at centre frequency

> Check out
> http://sites.google.com/site/g4zfqradio/sdr-with-soundcard-basic-faults.
> 73 ... Sid.
>
> On 30/08/11 22:12, Geoff wrote:
>>
>> Hi,
>>
>> I have just built the Kanga Finningley 80m SDR unit described in the
>> August RadCom.
>>
>> It is receiving signals that can be decoded OK but I have a large
>> signal on the centre frequency about 65dB above the noise floor.
>>
>> This signal is present when the whether the hardware is powered up or
>> not and can be seen on other sound analyser programs.
>>
>> I am not using a separate sound card but a friend is getting the same
>> result on his PC which has a Delta 44 sound card.

>>
>> I have tried all combinations of sound card settings and levels to no
>> avail.
>>
>> Can anyone suggest why this signal is present and, more important, how
>> it can be removed.
>>
>> Geoff
>>
>>
>
>
> --
> Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
> Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support
> Senior Staff Specialist, Cricket Coach
> Microsoft Windows Free Zone - Linux used for all Computing Tasks
>
>

1622. Free download the radioamateur Handbook 2012 by F6BCU

Yahoo group: kgksdr
Date: 2011-10-16 12:20:39 UTC
From: F6BCU
Topic: 1622 Message: 1622

god day to all

free download the radio amateur handbook by F6BCU 580 MO

2100 pages 225 articles schématic, QRP, antenna, color photo

10GHz to 160m

http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/

73

F6BCU

1623. M0KGK AND SI570

Yahoo group: kgksdr
Date: 2012-01-28 09:33:19 UTC
From: f1bbu
Topic: 1623 Message: 1623

Hello all !!

is a possibility to find a add on to pilote the SI570 with the M0KGK soft
it is the best soft I test, easy to use and very good reject image frequency
73 QRO Jacques

1624. CW strait key connection to serialcomm port

Yahoo group: kgksdr
Date: 2012-02-20 20:18:15 UTC
From: kennethhardy3
Topic: 1624 Message: 1624

Hello.
I would be grateful for a bit of info. from anyone using
a Softrock v6.2 I would like the strait key connections for the serial port into my laptop and also

the correct lisings RTS/DTR/DSR/CTS for the transmitter com port options of KGKSDR.

My dear old V6.2 has been working fine with an Si570 input/Rocky. Now I want to use KGKSDR with a strait hand key and am having a senior moment about the connections.

Cheers
Ken Hardy M0XBK

1625. Re: CW strait key connection to serialcomm port

Yahoo group: kgksdr
Date: 2012-02-20 20:49:10 UTC
From: Duncan
Topic: 1624 Message: 1625

--- In kgksdr@yahoogroups.com, "kennethhardy3" <kennethhardy3@...> wrote:
>
>
> Hello.
> I would be grateful for a bit of info. from anyone using
> a Softrock v6.2 I would like the strait key connections for the serial port into my laptop and also
>
> the correct lisings RTS/DTR/DSR/CTS for the transmitter com port options of KGKSDR.
>
> My dear old V6.2 has been working fine with an Si570 input/Rocky. Now I want to use KGKSDR with a strait hand key and am having a senior moment about the connections.

Hi Ken, if you go into the help file and expand the "Getting Started" section, you will see a page for Connections.

Regards,
Duncan

1626. keying connections for KGKSDR

Yahoo group: kgksdr
Date: 2012-02-21 19:03:46 UTC
From: kennethhardy3
Topic: 1626 Message: 1626

Hello Duncan

Many thanks for pointing me in the right direction.
I was well aware of the GoBBL connection diagram but
also folled the path Troubleshooting - Transmitter -
Configuration which displays a page showing a set of
transmitter options. Here Common high is shown as DTR
and - PTT to Tx as RTS. I became FIXATED on having my cw
keying voltage on pin 7 of the 9D especially when selecting
TUNE on the front panel did give me a positive keying voltage.

After your advice re-conncted as GoBBL.
Now I am using pin 4 and of course all is well.
Beautiful keying. Beautiful sidetone.

Very much looking forward to using a single programme
for CW and SSB without the complexity of PowerSDR.

Again my thanks - sri to tbl you..

Ken Hardy MoXBK

1628. image rejection

Yahoo group: kgksdr
Date: 2012-05-14 16:54:44 UTC
From: Ramus Michel
Topic: 1628 Message: 1628

Hello, my receiver works well but i have some trouble with the image rejection calibration. When i do a manuel calibration it works perfectly but when i finish and leave the calibration the level comes at the same level as before calibration. It's like there is no memorisation of calibration. Could you give me some advise ?

1629. Re: image rejection

Yahoo group: kgksdr
Date: 2012-05-15 12:20:45 UTC
From: John
Topic: 1628 Message: 1629

I have a similar problem. During calibration signals -30 db and more receive good IR in calibration. In normal use signals more than -30 have good IR but signals -50 and lower have no IR.

John TI4/N0URE

--- In kgksdr@yahoogroups.com, Ramus Michel <ramusmichel@...> wrote:
>
> Hello, my receiver works well but i have some trouble with the image rejection calibration. When i do a manuel calibration it works perfectly but when i finish and leave the calibration the level comes at the same level as before calibration. It's like there is no memorisation of calibration. Could you give me some advise ?
>

1630. Re: [kgksdr] Re: image rejection

Yahoo group: kgksdr
Date: 2012-05-15 19:30:56 UTC
From: Ramus Michel
Topic: 1628 Message: 1630

So there is solution to memorise the calibration during normal use ?

From: John <n0ure@...>
To: kgksdr@yahoogroups.com
Sent: Tuesday, May 15, 2012 2:20 PM
Subject: [kgksdr] Re: image rejection

I have a similar problem. During calibration signals -30 db and more receive good IR in calibration. In normal use signals more than -30 have good IR but signals -50 and lower have no IR.

John TI4/N0URE

--- In kgksdr@yahoogroups.com, Ramus Michel <ramusmichel@...> wrote:
>
> Hello, my receiver works well but i have some trouble with the image rejection calibration. When i do a manuel calibration it works perfectly but when i finish and leave the calibration the level comes at the same level as before calibration. It's like there is no memorisation of calibration. Could you give me some advise ?
>

1631. I am new to the group

Yahoo group: kgksdr
Date: 2012-09-06 19:24:41 UTC
From: Paul
Topic: 1631 Message: 1631

Hello
I am new. Right yestarday I download it for my Softrock and E-MU 0202 audio device.
I like it but I am not able to change the band, the Mhz and the frequency range on the screen.
I already read the Manual (Help on line), but I still not able to change them because I do not see any Help for changing the band.
Could you help me ?
Thank you, 73
Paolo i8ixo

1632. Re: I am new to the group

Yahoo group: kgksdr
Date: 2012-09-06 19:51:47 UTC
From: Duncan
Topic: 1631 Message: 1632

--- In kgksdr@yahoogroups.com, "Paul" <copa054@...> wrote:
>
> Hello
> I am new. Right yestarday I download it for my Softrock and E-MU 0202 audio device.
> I like it but I am not able to change the band, the Mhz and the frequency range on the screen.
> I already read the Manual (Help on line), but I still not able to change them because I do not see any Help for changing the band.
> Could you help me ?

Hi Paolo, welcome to the group. You can change the frequency on screen by going to Options -> Transceiver... -> Frequencies

You can then right-click for the menu, or just press Insert key if you want to add a new frequency.

There is a drop down box next to the PTT/MOX/Tune buttons where you can select the frequency. Hope this helps.

73,

Duncan
M0KGK

1633. Re: I am new to the group

Yahoo group: kgksdr
Date: 2012-09-07 07:38:59 UTC
From: p.coppin
Topic: 1631 Message: 1633

Thanks a lot Duncan.
I have done it and that's alright - very good.
Last one.....how could I enlarge (left and right) the scope frequency range more than 20 Khz only (7.040 - 7.060) for going up-down more than few Khz ?
Thank you
Paul

-----Messaggio originale-----
Da: kgksdr@yahoogroups.com [mailto:kgksdr@yahoogroups.com] Per conto di Duncan
Inviato: giovedì 6 settembre 2012 21.52
A: kgksdr@yahoogroups.com
Oggetto: [kgksdr] Re: I am new to the group

--- In kgksdr@yahoogroups.com, "Paul" <copa054@...> wrote:
>
> Hello
> I am new. Right yestarday I download it for my Softrock and E-MU 0202 audio device.
> I like it but I am not able to change the band, the Mhz and the frequency range on the screen.
> I already read the Manual (Help on line), but I still not able to change them because I do not see any Help for changing the band.
> Could you help me ?

Hi Paolo, welcome to the group. You can change the frequency on screen by going to Options -> Transceiver... -> Frequencies
You can then right-click for the menu, or just press Insert key if you want to add a new frequency.
There is a drop down box next to the PTT/MOX/Tune buttons where you can select the frequency. Hope this helps.
73,
Duncan
M0KGK

1634. Re: I am new to the group

Yahoo group: kgksdr
Date: 2012-09-07 19:15:42 UTC
From: Duncan
Topic: 1631 Message: 1634

--- In kgksdr@yahoogroups.com, "p.coppin" <copa054@...> wrote:
>
> Thanks a lot Duncan.
> I have done it and that's alright - very good.
> Last one.....how could I enlarge (left and right) the scope frequency range
> more than 20 Khz only (7.040 - 7.060) for going up-down more than few Khz ?

This is set by the soundcard you can only have half the sample rate as the total range. 44.1kHz card gives you 20k, a 96kHz card will give you 48k width. It's not possible to go more than half the soundcard bandwidth (have a look up Nyqist theory for more information on this).

73,
Duncan
M0KGK

1635. message error

Yahoo group: kgksdr
Date: 2012-10-02 10:50:04 UTC
From: f1bbu
Topic: 1635 Message: 1635

Hello all !!

a problem appears sudently when a clic the botton mox or tune a box appears with message range error I uninstall and reinstall the program and I have allway the range error message

please can you help
Jacques

1636. Re: message error

Yahoo group: kgksdr
Date: 2012-10-02 18:38:31 UTC
From: Duncan
Topic: 1635 Message: 1636

--- In kgksdr@yahoogroups.com, "f1bbu" <f1bbu@...> wrote:
>
> Hello all !!
>
> a problem appears sudently when a clic the botton mox or tune a box appears with message range error I uninstall and reinstall the program and I have allway the range error message

Hi Jaques,

It sounds like a calibration map problem although these happen on RX, not TX. Uninstall does not delete the registry values, this is to avoid losing setup when you upgrade, but I would recommend deleting the registry values to see if that helps.

1. Make sure KGKSDR is not running
2. Start > Run > regedit.exe > click OK
3. Open HKEY_CURRENT_USER > Software > Duncan Amplification > M0KGK IQ Decoder
4. Right click on M0KGK IQ Decoder and select delete

On French versions of Windows, maybe the descriptions of things like "Delete" are different.

73,

Duncan
M0KGK

1637. Re: [kgksdr] Re: message error

Yahoo group: kgksdr
Date: 2012-10-08 06:07:15 UTC
From: JACQUES Le goff
Topic: 1635 Message: 1637

Hi Ducan

thank tou Ducan the probleme is save now bat it apppears again then I check the box single card and fill in TX and RX event
in fact I ad a card SB live before it was working fine with the sound card on the mother one
bat now I have again a problem with the mike the programme do not select automatiquely the microphone entry I have to do this with the window audio box
thank you again Ducan for your help
F1BBU Jacques

From: Duncan <m0kgk@...>
To: kgksdr@yahoogroups.com
Sent: Tuesday, October 2, 2012 8:38 PM
Subject: [kgksdr] Re: message error

--- In mailto:kgksdr%40yahoogroups.com, "f1bbu" <f1bbu@...> wrote:
>
> Hello all !!
>
> a problem appears sudently when a clic the botton mox or tune a box appears with message range error I uninstall and reinstall the program and I have allway the range error message

Hi Jaques,

It sounds like a calibration map problem although these happen on RX, not TX. Uninstall does not delete the registry values, this is to avoid losing setup when you upgrade, but I would recommend deleting the registry values to see if that helps.

1. Make sure KGKSDR is not running
2. Start > Run > regedit.exe > click OK
3. Open HKEY_CURRENT_USER > Software > Duncan Amplification > M0KGK IQ Decoder
4. Right click on M0KGK IQ Decoder and select delete

On French versions of Windows, maybe the descriptions of things like "Delete" are different.

73,

Duncan
M0KGK

1638. SOFTROCK SDR TRANSCEIVERS ON EBAY

Yahoo group: kgksdr
Date: 2012-11-07 11:32:07 UTC
From: gvastianos
Topic: 1638 Message: 1638

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-160m-KIT-Software-Defined-Radio-/300811927846?pt=US_Ham_Radio_Transceivers&hash=item4609c9c126

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-40m-80m-KIT-Software-Defined-Radio-/300811925089?pt=US_Ham_Radio_Transceivers&hash=item4609c9b661

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-15m-17m-KIT-Software-Defined-Radio-/300811930230?pt=US_Ham_Radio_Transceivers&hash=item4609c9ca76

http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-20m-30m-Software-Defined-Radio-/300811931972?pt=US_Ham_Radio_Transceivers&hash=item4609c9d144

http://www.ebay.com/itm/PCB-for-Bitx-Multiband-Transceiver-G6LBQ-design-/300811935656?pt=US_Ham_Radio_Transceivers&hash=item4609c9dfa8

1639. Re:Hello!

Yahoo group: kgksdr
Date: 2013-01-06 20:11:23 UTC
From: f1bbu@yahoo.com
Topic: 1639 Message: 1639

Happy new year! Hello! http://powerlabindia.com/data/?4It?s%20the%20only%20way%20to%20make%20money%20without%20any%20effort

1640. Re: [kgksdr] Re:Hello!

Yahoo group: kgksdr
Date: 2013-01-06 23:44:12 UTC
From: Alan Spicer Marine Telecom
Topic: 1639 Message: 1640

goodbye

From: f1bbu@...
Sent: Sunday, January 06, 2013 3:11 PM
To: kgksdr@yahoogroups.com
Subject: [kgksdr] Re:Hello!

Happy new year! Hello! http://powerlabindia.com/data/?4It’s%20the%20only%20way%20to%20make%20money%20without%20any%20effort

---

Yahoo! Groups Links

1641. Re: SOFTROCK SDR TRANSCEIVERS ON EBAY

Yahoo group: kgksdr
Date: 2013-01-10 04:09:21 UTC
From: kc9ee
Topic: 1638 Message: 1641

Wish I had only paid that. Real happy with playin with my purchase tho!!!!

--- In kgksdr@yahoogroups.com, "gvastianos" wrote:
>
> http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-160m-KIT-Software-Defined-Radio-/300811927846?pt=US_Ham_Radio_Transceivers&hash=item4609c9c126
>
> http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-40m-80m-KIT-Software-Defined-Radio-/300811925089?pt=US_Ham_Radio_Transceivers&hash=item4609c9b661
>
> http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-15m-17m-KIT-Software-Defined-Radio-/300811930230?pt=US_Ham_Radio_Transceivers&hash=item4609c9ca76
>
> http://www.ebay.com/itm/Transceiver-SDR-Softrock-RXTX-v6-2-20m-30m-Software-Defined-Radio-/300811931972?pt=US_Ham_Radio_Transceivers&hash=item4609c9d144
>
> http://www.ebay.com/itm/PCB-for-Bitx-Multiband-Transceiver-G6LBQ-design-/300811935656?pt=US_Ham_Radio_Transceivers&hash=item4609c9dfa8
>

1642. (no subject)

Yahoo group: kgksdr
Date: 2013-01-17 17:33:25 UTC
From: f1bbu@...
Topic: 1642 Message: 1642

http://whjylxs.com/conflictcallanthonygreen/?4Learn%20more%20about%20extremely%20new%20diet%20system

1643. (no subject)

Yahoo group: kgksdr
Date: 2013-01-22 17:39:45 UTC
From: f1bbu@...
Topic: 1643 Message: 1643

http://mwilliamsondesigns.com/environmentaldividewaynewalsh/?7Join%20to%20this%20diet%20program

1644. Alinco CAT control ?

Yahoo group: kgksdr
Date: 2013-04-10 12:57:58 UTC
From: dgw007
Topic: 1644 Message: 1644

Hi all

I am trying to get the CAT interface description for Alinco?
it particular the DXR8-e receiver.. , including which functions are usable, in particular commands on how to set RFgain, Mode, Filters etc

I only have the rx at present but would love to get more involved in SDR with it , the standard KGSDR software leaves a bit to be desired looking at other software out there. but with out the control commands I an unable to work on anything

I have emailed Alinco directly a few times and so far no reply :(

Does anyone here have such knowledge ..

Many thanks all

Derek